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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
September 19, 1969
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A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

Author Index: Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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P H Freytag
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N M Hudson
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1967 514 R65
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P Iide
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Chrysomelidae, Insect taxonomy.

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G M Kohls C M Clifford H Hoogstraal
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Argasidae, Insect identification, Insect taxonomy, Larvae, Medical entomology, Ornithodoros. Ornithodoros darwini and Ornithodoros galapagensis are described as new species.

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R Kunnert
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16 Jun 1969 421 EN85
Insects, Surveys, Zoogeography.

11161-69
THREE SPECIES OF EYLAIS (ACARI: EYLAIDAE) PARASITIC ON AQUATIC HEMIPTERA.
C A Lanciani
Amer Microscop Soc Trans 88(3):356-365
Jul 1969 440.9 AM33
Aquatic insects, Insect taxonomy, Mites, Parasitic insects.

11162-69
THE GENUS ANISOPS IN AUSTRALIA (HEMIPTERA--HETEROPTERA NOTONECTIDAE.
I Lansbury
Ann Mag Natur Hist 3(3,JUL-SEP):433-458
Sep 1969 410 AN77
Insect taxonomy, Notonectidae.

11163-69
BLOOD-SUCKING STOMOXYINAE AND MUSCINAE OF THE DEMOCRATIC REPUBLIC OF THE CONGO (DIPTERA, MUSCIDAE). (FR)
M Leclercq
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):697-702
1968 105.1 G285
Insect taxonomy, Muscidae.

11164-69
TABANIDAE (DIPTERA) OF MOROCCO. IV. IDENTIFICATION OF PANGONIUS HASSANI N. SP.. (FR)
M Leclercq
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):703-711 REF
1968 105.1 G285
Insect taxonomy, Tabanidae.

11165-69
MORPHOLOGICAL AND PHYLOGENIC STUDIES ON THE LARVAE AND MALE GENITALIA OF THE EAST ASIATIC TINGIDAE (HETEROPTERA).
C E Lee
Kyushu Univ Fac Agr J 15(2):137-256 REF
Jun 1969 107.6 K995
Insect morphology, Insect taxonomy, Larvae, Reproductive organs, Tingidae.

11166-69
ON PROBLEMS WITH WEATHER CONDITIONS IN LIGHT TRAP USE. (DU
W J B Leffef
Entomol Ber 29(3):43-44
01 Mar 1969 420 N38B
Insect collecting equipment, Lepidoptera, Light traps, Weather. English abstract.

11167-69
NEOTYPES FOR PHALAENA ORBONA HUFNAGEL (LEP.). (GE)
B J Lempke
Entomol Ber 29(2):21
01 Feb 1969 420 N38B
Insect taxonomy, Noctuidae.

11168-69
MODERN SYSTEMATICS FOR THE NOTODONTIDAE (LEP.). (DU)
B J Lempke
Entomol Ber 29(3):49-52
01 Mar 1969 420 N38B
Insect taxonomy, Notodontidae. English abstract.

11169-69
MILLIPEDS FROM JAMAICAN CAVES.
H F Loomis
Fla Entomol 52(3):141-145
Sep 1969 420 F662
Cave fauna, Diplopoda, Insect taxonomy, Surveys.

11170-69
A RE-DESCRIPTION OF CRYPTOGNATHUS CUCURBITA BERLESE 1916 (ACARI, PROSTIGMATA, CRYPTOGNATHIDAE).
M Luxton D C Lee
Acarologia 11(2):222-226
Jul 1969 434.8 AC1
Acarina, Insect taxonomy, Mites.

11171-69
THE APHIDIIDAE (HYMENOPTERA) OF FINLAND. (GE)
M Mackauer
Soc Fauna Flora Fenn Fauna Fenn (22):40P MAP REF
1968 511 SO1
Aphidiinae, Braconidae, Insect identification, Insect taxonomy, Zoogeography.

11172-69
THE CYPHOMYIA BICARINATA SPECIES GROUP (DIPTERA: STRATIOMYIDAE).
M W McFadden M T James
Kans Entomol Soc J 42(3):313-320
Jul 1969 420 K13
Insect taxonomy, Stratiomyidae, Zoogeography.

11173-69
NOTES ON LANEELLA BRUNNIPES (SURCOUF, 1919) (DIPTERA, CALLIPHORIDAE).
R P Mello
Rev Brasil Biol 29(2):243-247
Jun 1969 442.8 R326
Calliphoridae, Insect taxonomy. Portuguese abstract.

11174-69
NEOTROPICAL MIRIDAE: CVII: A DESCRIPTION OF FIVE NEW SPECIES FROM ECUADOR. (POR)
J C de Melo Carvalho I da Penha Gomes
Rev Brasil Biol 29(2):225-230 REF
Jun 1969 442.8 R326
Insect taxonomy, Miridae. English abstract.

11175-69
SOME STIGMAEID MITES FROM SOUTH AFRICA (ACARI: TROMBIDIFORMES).
M K P Meyer
Acarologia 11(2):227-271 REF
Jul 1969 434.8 AC1
Insect taxonomy, Trombidiformes, Zoogeography.

11176-69
AFRICAN GENERA OF ALLODAPINE BEES (HYMENOPTERA: ANTHOPHORIDAE: CERATININI).
C D Michener
Kans Entomol Soc J 42(3):289-293
Jul 1969 420 K13
Anthophorinae, Insect taxonomy.

11177-69
NEW BRAZILIAN HESPERIINAE (LEPIDOPTERA, HESPERIIDAE). (POR)
O H H Mielke
Rev Brasil Biol 29(1):1-12
Apr 1969 442.8 R326
Hesperiidae, Insect taxonomy. English abstract.

11178-69
DESCRIPTION OF A NEW SPECIES OF THE GENUS, ACANTHACHRYSON BRUCH, 1921 (COLEOPTERA, CERAMBYCIDAE, ACHRYSONINI). (POR)
M A Monne
Rev Brasil Biol 29(2)279-282
Jun 1969 442.8 R326
Cerambycidae, Insect taxonomy. English abstract.

11179-69
A REMARKABLE CASE OF ALARY DIMORPHISM IN THE ARADIDAE (HENIPTERA) WITH A GENERIC SYNONYMY AND A NEW SPECIES.
G B Monteith
Entomol Soc Australia (nsw) J 8(1):87-94
30 Jun 1969 423.92 EN84
Aradidae, Insect biology, Insect morphology, Insect taxonomy, Wings (insects), Zoogeography.

The genus Zeugocoris Usinger and Matsuda is sunk as a junior synonym of Caecicoris Kormilev since the respective type species, Z. microcerus (Walker) and C. oviventris Kormilev, are found to be dimorphic forms of the one species. The morphological changes associated with wing reduction in the micropterus morph are described and the taxonomic and biological implications of this dimorphism are discussed. Additional distributional and biological data for C. microcerus are presented and C. latus sp. n. is described from New Britain

11180-69
THE CONSPICUA SPECIES-GROUP OF TYPHLODROMINA MUMA 1961.
M. H. Muma H. A. Denmark
Entomol Soc Amer Ann 62(2):406-412
Mar 1969 420 EN82
Habitats, Insect taxonomy, Mites, Zoogeography.

11181-69
RESULTS OF A STUDY OF THE ORDER COLEOPTERA IN OUR COUNTRY. (AL
X Murraj
Tirana Inst Larte Shteteror Bujqesise Bul Shken Bujq 22(1):31-46
1968 512 T51
Coleoptera, Insect identification, Insect taxonomy, Zoogeography. French summary.
161 species belonging to 33 families are listed.

11182-69
THE MALES OF TABANUS SPODOPTEROIDES. (GE)
N G Olsuf'ev J Moucha M Chvala
Angew Parasitol 10(2):124
May 1969 436.8 AN4
Insect taxonomy, Tabanidae, Tabanus.

11183-69
THREE NEW CEPHUS SPECIES FOR THE NETHERLANDS (HYN., CEPHID.). (DU)
S J van Ooststroom
Entomol Ber 28(12):239-240
01 Dec 1968 420 N38B
Cephidae, Insect taxonomy. English abstract.

11184-69
CIDARIA LUCTUATA IN OSTERIESLAND (LEP., GEOMETRIDAE). (GE)
U Paukstadt
Entomol Z 79(12):139-140
16 Jun 1969 421 EN85
Geometridae, Zoogeography.

11185-69
DESCRIPTION OF THE MALES OF ACYRTHOSIPHON CALVULUS OSS. (HEM.: HOM.).
J Pettersson
Entomol Tidskr 89(3-4):188-191
31 Dec 1968 421 EN891
Acyrthosiphon, Insect taxonomy.

11186-69
A REVISION OF THE NEOTROPICAL GENUS DASYSTOLE (LEPIDOPTERA: GEOMETRIDAE).
R W Poole
Kans Entomol Soc J 42(3):276-285
Jul 1969 420 K13
Geometridae, Insect taxonomy.

11187-69
IS RHYACIA SIMULANS REALLY SO RARE (LEP., NOCTUIDAE). (GE
P Pretscher
Entomol Z 79(10):113
16 May 1969 421 EN85
Insect taxonomy, Noctuidae, Rhyacia, Zoogeography.

11188-69
THREE NEW SPECIES OF PSITTACOBROSUS FROM BRAZILIAN PARROTS.
R Price
Entomol Soc Amer Ann 62(2):393-396
Mar 1969 420 EN82
Insect taxonomy, Parrots, Psittacobrosus, Zoogeography.

11189-69
A NEW SPECIES OF AMYRSIDEA FROM AN ORIENTAL PATRIDGE (MALLOPHAGA: MENOPONIDAE).
R D Price R E Elbel
Kans Entomol Soc J 42(3):336-338
Jul 1969 420 K13
Birds, Insect taxonomy, Menoponidae, Parasitic insects.

11190-69
A CONTRIBUTION TO THE NOMENCLATURE OF THE PIESMATIDAE (HETEROPTERA). (GE)
G Proeseler
Beitr Entomol 17(1-2):305-307
1967 421 B392
Heteroptera, Nomenclature, Piesmidae. English and Russian abstracts.

11191-69
STUDIES ON THE INDIAN SPECIES OF THE GENUS COCCOPHAGUS WESTWOOD, 1883.
B R S Rao P S Rai
Ann Mag Natur Hist 3(3,JUL-SEP):381-392
Sep 1969 410 AN77
Coccophagus, Insect taxonomy.

11192-69
A NEW SPECIES OF THE GENUS ANISOTA (LEP., SATURNIIDAE) IN NORTH AMERICA. (GE)
J C E Riotte
Entomol Z 78(13):141-146
01 Jul 1969 421 EN85
Anisota, Insect taxonomy, Saturniidae.

11193-69
A REDESCRIPTION OF THE MICROTHROMBIOIINAE OF BOLIVIA, ORIGINALLY DESCRIBED BY J. BOSHELL AND J. A. KERR IN 1942 (ACARI, THROMBIDIIDAE). (1ST PART). (FR)
P Robaux
Paris Mus Nat Hist Natur Bull 39(2,SER 2):293-307
10 Oct 1967 410.9 P213
Insect taxonomy, Mites, Zoogeography.

11194-69
INJURIOUS INSECTS IN 1967. (DU)
G van Rossem H C Burger C F van de Bund
Entomol Ber 28(11):206-210
01 Nov 1968 420 N38B
Insect pests, Surveys. English abstract.

11195-69
CICADULINA BIPUNCTELLA AND C. CHINAI FROM INDIA. (HEMIPTERA, CICADELLIDAE).
R F Ruppel
Kans Entomol Soc J 42(3):257-260
Jul 1969 420 K13
Cicadellidae, Insect taxonomy, Population.

11196-69
NEW SPECIES AND SUBSPECIES OF THE GENUS CHAETISOTHRIPS FROM THE CARIBBEAN AND CENTRAL AMERICAN REGION (THYSANOPTERA, THRIPIDAE).
K Sakimura
Fla Entomol 52(3):123-135
Sep 1969 420 F662
Insect taxonomy, Thripidae, Zoogeography.

11197-69
A PRELIMINARY NOTE ON A REVIEW OF THE GENUS NEURISOTHRIPS, NEW GENUS (THYSANOPTERA: THRIPIDAE).
K Sakimura
Hawaii Entomol Soc Proc 19(3):419-423
Jun 1967 420 H312
Insect taxonomy, Thripidae, Thysanoptera.

11198-69
NEW SPECIES OF SUBGENERA ISOTHRIPS AND ISOCHAETOTHRIPS FROM OCEANIA AND AUSTRALIA, WITH NOTE ON CHANGES IN NOMENCLATURE (THYSANOPTERA: THRIPIDAE).
K Sakimura
Pacific Insects 11(1):71-80
1969 421 P11
Insect geography, Insect taxonomy, Thripidae.

11199-69
NOTOCHRYSA CAPITATA FABRICIUS IN SOUTHERN GERMANY (PLANIPENNIA, CHRYSOPIDAE). (GE)
H Schmid
Entomol Z 79(12):140
16 Jun 1969 421 EN85
Chrysopidae, Zoogeography.

11200-69
TWO NEW SPECIES OF GENUS AMBLYSEIUS IN THE U. A. R. (ACARINA--PHYTOSEIIDAE).
K K Shehata M A Zaher
Acarologia 11(2):175-179
Jul 1969 434.8 AC1
Insect taxonomy, Phytoseiidae.

11201-69
A LIST OF LONGICORNIA OF CEARA (COLEOPTERA, CERAMBYCIDAE). (POR)
A G da Silva
Soc Cearense Agron Bol 8:33-36
Jun 1967 9.2 SO14B
Cerambycidae, Insect taxonomy. English abstract.

11202-69
MORPHOLOGY OF SPERMATOGENETIC TUBES AS TAXONOMIC CHARACTER IN TRIATOMINAE (REDUVIIDAE, HEMIPTERA).
F P da Silva G Schreiber
Rev Brasil Biol 29(1):97-102
Apr 1969 442.8 R326
Insect taxonomy, Reduviidae, Reproductive organs.

11203-69
RESULTS OF THE ZOOLOGICAL INVESTIGATIONS OF DR. Z. KASZAB IN MONGOLIA. 86. STAPHYLINIDAE. II. SUBFAMILIES PAEDERINAE, XANTHOLININAE AND STAPHYLININAE (COLEOPTERA). 74. CONTRIBUTION TO THE KNOWLEDGE OF THE STAPHYLINIDAE. (GE)
A Smetana
Acta Ent Bohemoslov 64(3):195-218 MAP
1967 420 C33
Insect taxonomy, Paederinae, Staphylinidae, Staphylininae, Xantholininae. Czech abstract.

11204-69
CONTRIBUTION TO THE KNOWLEDGE OF THE SCORPIONS OF INDIA. 2. IOMACHUS LAEVICEPS POCOCK, 1893 (SCORPIONIDAE, ISCHNURINAE). (FR)
R P Sreenivasa-Teddy
Paris Mus Nat Hist Natur Bull 39(6,SER 2):1066-1076 MAP
09 Aug 1968 410.9 P213
Scorpionida, Taxonomy, Zoogeography.

11205-69
OBSERVATION OF CHALCEDECTUS SINAITICUS (MS.), AND DESCRIPTIONS OF C. BALACHOWSKYI SP. IN (HYM., CHALCEDECTIDAE) AND OOPRISTUS SAFAVII GEN. N., SP. N. (HYM., TORYMIDAE), TWO PARASITES OF ECONOMIC IMPORTANCE IN IRAN. (FR)
J R Steffan
Entomophaga 13(3):209-216
1968 421 EN835
Chalcedectoides, Insect taxonomy, Parasitic insects, Torymidae. English abstract.

11206-69
A NEW GENUS AND SPECIES OF MOSQUITO FROM COLOMBIA, GALINDOMYIA LEEI (DIPTERA, CULICIDAE, CULICINI).
A Stone P Barreto
J Med Entomol 6(2):142-146
May 1969 421 J828
Culicidae, Insect taxonomy.

11207-69
ON THE BIOLOGY OF SOME SPECIES OF PAPILIONIDAE FROM THE ISLAND OF CELEBES (EAST-INDONESIA).
R Straatman

Entomol Ber 28(12):229-233
01 Dec 1968 420 N38B
Forest insects, Insect biology, Papilionidae, Surveys.

11208-69
CONIOPTERYX CERATA HAGEN, 1858, FURTHER DESCRIPTION AND LECTOTYPE DESIGNATION (NEUROPTERA, CONIOPTERYGIDAE).
B Tjeder
Entomol Tidskr 89(3-4):141-146
31 Dec 1968 421 EN891
Coniopterygidae, Insect taxonomy, Zoogeography.

11209-69
COMPARISON OF ENZYMES OF TWELVE SPECIES OF MOSQUITOES.
A W Trebatoski J F Haynes
Entomol Soc Amer Ann 62(2):327-335 REF
Mar 1969 420 EN82
Culicidae, Electrophoresis, Enzymes, Insect taxonomy.

11210-69
DROSOPHILA MIGRIVENTRIS MACQUART, 1843, A NEW SYNONYM OF D. MELANOGASTER MEIGEN, 1830 (DIPT. DROSOPHILIDAE). (FR)
L Tsacas
Paris Mus Nat Hist Natur Bull 39(1,SER 2):158-159
21 Jul 1967 410.9 P213
Drosophila melanogaster, Insect taxonomy.

11211-69
COLEOPTEROUS CERAMBYCIDAE OF ARABIA. (FR)
A Villiers
Paris Mus Nat Hist Natur Bull 39(5,SER 2):846-850
25 Apr 1968 410.9 P213
Cerambycidae, Insect taxonomy, Zoogeography.

11212-69
A NEW AND UNUSUAL SPECIES OF BOLBOMYIA (DIPTERA: RHAGIONIDAE).
D W Webb
Kans Entomol Soc J 42(3):285-288
Jul 1969 420 K13
Insect taxonomy, Rhagionidae.

11213-69
SOME ASPECTS OF ZOOGEOGRAPHY AND SPECIATION IN THE GENUS TELDENIA MOORE (DREPANIDAE: LEPIDOPTERA).
C Wilkinson
Ann Mag Natur Hist 3(3,JUL-SEP):367-380 MAP REF
Sep 1969 410 AN77
Insect taxonomy, Teldenia, Zoogeography.

11214-69
A NEW NEOTROPICAL SPECIES OF MOSILLUS (DIPTERA, EPHYDRIDAE).
W W Wirth
Fla Entomol 52(3):147-152
Sep 1969 420 F662
Ephydridae, Insect taxonomy.

11215-69
MACROLEPIDOPTERA IN 1967. (DU)
T H van Wisselingh
Entomol Ber 29(2):22
01 Feb 1969 420 N38B
Lepidoptera, Surveys. English abstract.

11216-69
DISTRIBUTION DATA OF WESTERN EUROPEAN HYMENOPTERA. VII. FAMILY OF THE CEPHIDAE (SYMPHYTA). (FR)
F Wolf
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):754-762 REF
1968 105.1 G285
Cephidae, Insect taxonomy, Zoogeography.

11217-69
DISTRIBUTION DATA OF WESTERN EUROPEAN HYMENOPTERA. VIII. FAMILY OF THE ARGIDAE (SYMPHYTA). (FR)
F Wolf
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(4):763-775 REF
1968 105.1 G285
Argidae, Insect taxonomy, Zoogeography.

11218-69
THREE GENERA OF FAMILY TENUIPALPIDAE (ACARINA) IN THE U. A. R. WITH DESCRIPTION OF THREE NEW SPECIES.
M A Zaher A A Yousef
Acarologia 11(2):272-280
Jul 1969 434.8 AC1
Insect taxonomy, Mites, Tenuipalpidae, United Arab Republic.

11219-69
CONTRIBUTION TO THE FAUNA OF LONGICORNIA IN THE STATE OF MARANHAO (COLEOPTERA, CERAMBYCIDAE). (POR)
D Zajciw
Soc Cearense Agron Bol 8:1-12 REF
Jun 1967 9.2 SO14B
Cerambycidae, Insect taxonomy, Zoogeography. English abstract.

PHYSIOLOGY AND BIOCHEMISTRY

11220-69
3,4-DIHYDROXY-MANDELIC ACID IN THE MUSHROOM GLAND OF COCKROACHES.
K G Adiyodi
Naturwissenschaften 56(7):373
Jul 1969 474 N213
Chromatography, Glands (insects), Hydroxy acids, Insect biochemistry, Mandelic acid, Periplaneta americana.

11221-69
THE RELATIVE SUSCEPTIBILITY OF THE LARVAE OF SPODOPTERA MAURITIA ACRONYCTOIDES (GUENEE) (LEPIDOPTERA: NOCTUIDAE) TO SEVERAL CONTACT INSECTICIDES.
K Ando M Sherman
Hawaii Entomol Soc Proc 19(3):349-360 REF
Jun 1967 420 H312
Carbaryl, Chlordane, DDT, Fenthion, Insecticide resistant insects, Insecticides, Larvae, Malathion, Spodoptera.

11222-69
PARASITES OF THE LARCH CASEBEARER, COLEOPHORA LARICELLA (HBN.), IN BRITISH COLUMBIA (LEIDOPTERA: COLEOPHORIDAE).
R J Andrews N J Geistlinger
Entomol Soc Brit Columbia Proc 66:50-51
01 Aug 1969 420 B77
Braconidae, Chalcididae, Coleophora laricella, Eulophidae, Ichneumonidae, Insect ecology, Parasitic insects, Pteromalidae.

11223-69
THE EFFECT OF RADIOACTIVE PHOSPHORUS ON THE DEVELOPMENT OF AEDES AEGYPTI LARVAE.
M Anwar L J Middleton
Hawaii Entomol Soc Proc 19(3):361-366
Jun 1967 420 H312
Aedes aegypti, Insect physiology, Larvae, Phosphorus, Radiation.

11224-69
SUCCESSFUL LABORATORY MATING OF TWO SPECIES OF JACKRABBIT BOT FLIES.
C R Baird K J Capelle
J Med Entomol 6(2):196
May 1969 421 J828
Cuterebra, Insect behavior, Reproduction.

11225-69
ARGININE CONTENT OF THE NEUROSECRETORY CELLS OF GRASSHOPPER, ACRIDA GIGANTEA HBST.
S K Banerjee
Indian J Exp Biol 7(2):125-126
Apr 1969 442.8 IN2
Acrididae, Arginine, Insect biochemistry, Insect physiology, Nervous system.

11226-69
THE CONTENTS OF THE PHARYNGEAL GLANDS OF THE ANT MESSOR CAPITATUS LATR. (INSECTA, HYMENOPTERA, FORMICIDAE). (FR)
M Barbier B Delage
Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1520-1522 REF
13 Mar 1967 505 P21
Formicidae, Glands (insects), Insect biochemistry, Pharyngeal glands.

11227-69
NOTES ON THE DISTRIBUTION AND BIONOMICS OF SOME IDAHO CERAMBYCIDAE (COLEOPTERA).
W F Barr R L Penrose
Great Basin Natur 29(2):88-95
31 Jul 1969 410 G79
Cerambycidae, Food habits, Habitats, Zoogeography.

11228-69
THE PHOTORECEPTORS OF THE COLLEMBOLA. NEW FORMATIONS OF THE RHABDOMERIC STRUCTURE BELONGING TO THE GENUS TOMOCERUS (INSECTA, COLLEMBOLA). (FR)
J A Barra
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2088-2090
21 Apr 1969 505 P21
Collembola, Cytology, Electron microscopy, Eyes, Insect morphology, Insect physiology, Tomocerus.

11229-69
KOJIC ACID AS AN INSECTICIDAL MYCOTOXIN.
R L Beard G S Walton
J Invertebrate Pathol 14(1):53-59 REF
Jul 1969 421 J826
Aspergillus flavus, Insecticides, Musca domestica, Oncopeltus fasciatus, Toxicology, Toxins.

11230-69
THE MAJOR HYDROCARBON OF A COCKROACH CUTICULAR WAX.
I M Beatty A R Gilby
Naturwissenschaften 56(7):373
Jul 1969 474 N213
Cuticle, Hydrocarbons, Insect biochemistry, Periplaneta americana, Waxes.

11231-69
CORRELATION OF CELLULAR ACTIVITY IN WEISMANN'S RING WITH MOLTING CYCLES IN LARVAE OF MUSCA AUTUMNALIS.
R C Berberet P L Landers
Entomol Soc Amer Ann 62(2):446-447
Mar 1969 420 EN82
Insect histology, Insect physiology, Molting (insects), Musca autumnalis.

11232-69
A HISTOLOGICAL AND BIOMETRICAL STUDY OF WING DEVELOPMENT IN THE GRASSHOPPER MELANOPLUS LAKINUS.
R G Bland W L Nutting
Entomol Soc Amer Ann 62(2):419-436 REF
Mar 1969 420 EN82
Insect histology, Insect morphology, Melanoplus, Metamorphosis, Mitosis, Statistics, Wings (insects).

11233-69
THE ANATOMY AND HISTOLOGY OF THE MAXILLARY PALP OF SCHISTOCERCA GREGARIA (ORTHOPTERA, ACRIDIDAE).
W M Blaney R F Chapman

J Zool 157(4):509-535 REF
Apr 1969 410.9 L84P
Insect histology, Insect morphology, Insect physiology, Mouth parts, Nervous system, Schistocerca gregaria.

11234-69
SEX PHEROMONE OF TRYPOBENDRON LINEATUM: PRODUCTION IN THE FEMALE HINDGUT-MALPIGHIAN TUBULE REGION.
J H Borden C E Slater
Entomol Soc Amer Ann 62(2):454-455
Mar 1969 420 EN82
Insect physiology, Intestines, Malpighian tubes, Pheromones, Sex behavior, Trypodendron lineatum.

11235-69
FECAL FILAMENTS PRODUCED BY FUNGUS INFESTING LARVAE OF PLATYDEMA OREGONENSE.
J H Borden M McClaren M A Horta
Entomol Soc Amer Ann 62(2):444-446
Mar 1969 420 EN82
Entomogenous fungi, Feees, Insect physiology, Larvae, Polyporus, Spores, Tenebrionidae.

11236-69
INDUCTION OF MORPHOLOGICAL ABERRATIONS BY ENZYME INHIBITION IN DROSOPHILA MELANOGASTER.
M Bos W Scharloo R Bijlsma de Boer J den Hollander
Experientia 25(8):811-812 REF
15 Aug 1969 475 EX7
Drosophila melanogaster, Enzymes, Insect biochemistry, Inseet morphology, Mutations.

11237-69
METHOD FOR THE DETECTION AND REGISTRATION OF WEAK SOUNDS, SUCH AS THE GNAWING OF INSECT LARVAE. (DU)
D Ch Brandt
Entomol Ber 28(12):236-238
01 Dec 1968 420 N38B
Food habits, Larvae, Methodology, Sound waves, Stridulation. English abstraet.

11238-69
ELECTRON MICROSCOPY OF THE STRIATED BORDER OF THE MIDGUT CELLS OF JAVESELLA PELLUCIDA (F.) (HOMOPTERA, DELPHACIDAE).
J Break O Kralik
Acta Ent Bohemoslov 64(3):173-174
1967 420 C33
Delphacidae, Eleetron mieroseopy, Intestines, Javesella pellueida.

11239-69
NEW PHOTORECEPTORS PLACED IN EVIDENCE IN THE DICTYOPTERA: THE PARAOCELLAR ORGANS. (FR)
P Brousse-Gaury
Acad Sci Compt Rend Ser D Sci Nat 264(19, 1ST SEMESTER):2317-2320 REF
08 May 1967 505 P21
Insect histology, Orthoptera, Periplaneta americana, Phototropism.

11240-69
ATTRACTION OF APIS MELLIFERA DRONES BY THE ODOURS OF THE QUEENS OF TWO OTHER SPECIES OF HONEYBEES.
C G Butler D H Calam R K Callow
Nature 213(5074):423-424
28 Jan 1967 472 N21
Apis florea, Apis indica, Apis mellifera, Attraetants, Ethyl aleohol, Pheromones, Queen bees, Smell.

11241-69
HISTOLOGY OF THE MALE AUXILLARY GLANDS OF SCHISTOCERCA GREGARIA F. (ORTHOPTERA). EFFECT OF ALLATECTOMY ON THEIR STRUCTURE AND FUNCTION. (FR)
A M Cantaeuzene
Acad Sci Compt Rend Ser D Sci Nat 264(1, 1ST SEMESTER):93-96
04 Jan 1967 505 P21
Corpora allata, Glands (insects), Insect histology, Insect physiology, Schistoeerca gregaria.

11242-69
GROWTH OF THE TREHALA AND ITS NEURO-ENDROCRINE CONTROL IN THE MIGRATORY LOCUST, LOCUSTA MIGRATORIA MIGRATORIOIDES, THE IDENTIFICATION OF TREHALOSE IN THE HEMOLYMPH. (FR)
D Chalaye
Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2944-2947
16 Jun 1969 505 P21
Chromatography, Hemolymph, Insect biochemistry, Locusta migratoria, Trehalose.

11243-69
RECORDINGS OF THE ACTIVITY OF THREE NEURONS IN THE CERCAL BASICONICA SENSILLA OF LOCUSTA MIGRATORIA L. (ORTHOPTERA, ACRIDIDAE). (FR)
I Chambille-Jaillet
Paris Soc Biol Compt Rend 163(1):92-96
16 Jun 1969 442.9 P21
Eleetrophysiology, Inseet physiology, Locusta migratoria, Nervous system.

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J Anim Ecol 37(2):387-403 MAP REF
Jun 1968 410 J826
Atta, Formieidae, Guyana, Inseet behavior, Inseet nutrition, Surveys.

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COMPARATIVE TOXICITY (MAMMALS, INSECTS, MITES) OF NEW PHOSPHORYLATE DERIVATIVES OF AMINOETHYLTHIOL. (FR)
J Cheymol P Chabrier T N Thanh P Savignac A Thizy Et Al
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2150-2153
21 Apr 1969 505 P21
Chemieal control (inseets), Chemistry, Inseeticides, Miee, Mites, Organophosphorus compounds.

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GREGARINIDAE: NEW ORTHOPTERAN PARASITES. (FR)
J C Corbel
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25 Apr 1968 410.9 P213
Gregarina, Inseet diseases, Orthoptera, Taxonomy.

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ULTRASTRUCTURE OF THE VAS DEFERENS OF APIS MELLIFERA L.. (POR)
C da Cruz landim M A da Cruz hofling
Rev Brasil Biol 29(2):181-190 REF
Jun 1969 442.8 R326
Apis mellifera, Electron microseopy, Inseet morphology, Reproductive organs. English abstraet.

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STUDIES ON THE INCIDENCE OF MOSQUITOES IN THE FOOD OF TETRAGNATHA MONTANA SIMON AND ITS FOOD ACTIVITY IN THE NATURAL HABITAT.
E Dabrowska-Prot J Luczak
Ekol Pol Ser A (SER A)16(43):844-853
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Culieidae, Forest inseets, Habitats, Inseet nutrition, Predaceous inseets, Tetragnatha montana. Polish summary.

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PREY AND PREDATOR DENSITY AND THEIR REACTIONS IN THE PROCESS OF MOSQUITO REDUCTION BY SPIDERS IN FIELD EXPERIMENTS.
E Dabrowska-Prot J Luczak K Tarwid
Ekol Pol Ser A (SER A)16(40):773-820
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Biological control (inseets), Culieidae, Dolomedes fimbriatus, Predaceous inseets, Tetragnatha montana. Polish summary.

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P G E Darling .
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01 Aug 1969 420 B77
Inseet behavior, Ixodes texanus, Light, Photoperiodism.

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FORMALDEHYDE AS AN ANTIVIRAL AGENT AGAINST A GRANULOSIS VIRUS OF PIERIS BRASSICAE.
W A L David S Ellaby G Taylor
J Invertebrate Pathol 14(1):96-101 REF
Jul 1969 421 J826
Formaldehyde, Granuloses, Inseet diseases, Pieris brassieae, Virus diseases.

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SURVIVAL OF MYZUS PERSICAE (APHIDIDAE) TREATED WITH HEAT AND THEN EXPOSED TO DIFFERENT TEMPERATURES. (FR)
L De Reggi
Entomol Exp Appl 11(4):372-378 REF
1968 421 EN895
Heat, Longevity, Myzus persieae, Temperature. English abstraet.

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Jun 1969 421 EN8
Lepidoptera, Seasonal variation.

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S Deleuranee
Acad Sci Compt Rend Ser D Sci Nat 264(2, 1ST SEMESTER):392-394
09 Jan 1967 505 P21
Coleoptera, Inseet physiology, Nervous system, Secretions.

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STUDIES OF THE GYPONINAE: A NEW GENUS, PONANELLA, AND SEVEN NEW SPECIES (HOMOPTERA: CICADELLIDAE).
D M DeLong P H Fregtag
Kans Entomol Soc J 42(3):303-312
Jul 1969 420 K13
Cieadellidae, Inseet taxonomy.

11256-69
ITALIAN EXPERIENCES WITH A NEW ACARICIDE PRODUCT: C 8514 OR GALECRON. (IT)
S Di Caro
Giornate Fitopatol 415-421
26 Mar 1967 SB599.G5
Acarieides, Chemieal eontrol (insects), Chloro-o-tolyl)-N,N-dimethylformamidine, N'-(4-, Ovieides, Panonychus ulmi.

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COMPLETE LIST OF THE MONOGRAPHS IN THE TROTTER STUDY OF CECIDOLOGY. (IT)
M Di Stefano
Marcellia 35(1-2,MAR-JUN):3-44
Jun 1968 421 M33
Bibliography, Ceeidomyiidae, Literature, Reviews.

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MORPHOLOGY OF THE REPRODUCTIVE SYSTEM OF STRUMETA TRYONI (FROGGATT) (DIPTERA: TRYPETIDAE) WITH A METHOD OF DISTINGUISHING SEXUALLY MATURE ADULT MALES.
R A I Drew

Entomol Soc Australia (nsw) J 8(1):21-32
30 Jun 1969 423.92 EN84
Insect identification, Insect morphology, Reproductive organs, Sex determination, Trypetidae.

Growth changes in adult male endoskeleton are described under differing conditions of temperature and light intensity. For the environmental conditions studied, physiological age was correlated with size of the male reproductive endoskeleton and a method for distinguishing teneral from sexually mature adults is given.

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LABORATORY STUDY OF ANOCENTOR NITENS (NEUMANN) (ACARINA: IXODIDAE). THE TROPICAL HORSE TICK.
R O Drummond T M Whetstone S E Ernst W J Gladney
J Med Entomol 6(2):150-154 REF
May 1969 421 J828
Anocentor nitens, Insect biology, Insect rearing, Ixodidae, Life cycle.

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EFFECT OF STARVATION ON THE BLACK CARPET BEETLE, ATTAGENUS MEGATOMA, INFECTED WITH THE EUGREGARINE PYXINIA FRENZELI.
F V Dunkel G M Boush
J Invertebrate Pathol 14(1):49-52
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Attagenus megatoma, Diet, Eugregarina, Insect diseases, Insect nutrition.

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A Dutkowski A Przelecka
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Cytology, Galleria mellonella, Hormones, Insect hormones, Insect physiology, Ovaries.

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M P Dwivedi
Natur Appl Sci Bul 20(3,JUL-SEP):267-275
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Birds, Parasitism, Trematoda.

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INFLUENCE OF TEMPERATURE INVERSION ON DEVELOPMENT OF SPRUCE BEETLE, DENDROCTONUS OBESUS (MANNERHEIM) (COLEOPTERA: SCOLYTIDAE).
E D A Dyer
Entomol Soc Brit Columbia Proc 66:41-45
01 Aug 1969 420 B77
Dendroctonus obesus, Insect biology, Insect physiology, Scolytidae, Temperature.

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LIFE HISTORY AND BEHAVIOR OF PARDOSA LAPIDICINA EMERTON (ARANEAE: LYCOSIDAE).
R R Eason
Kans Entomol Soc J 42(3):339-360
Jul 1969 420 K13
Araneae, Insect biology, Lycosidae, Seasonal variation.

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THE EFFECT OF SOME TRACE ELEMENTS ON GROWTH, REPRODUCTION, AND SYMBIONTS OF ARTIFICIALLY FED NEOMYZUS CIRCUMFLEXUS BUCKT. (APHIDAE, HOMOPTERA, INSECTA). (GE)
P Ehrhardt
Z Vergleichende Physiol 58(1):47-75 REF
1968 444.8 Z3
Calcium, Copper, Insect nutrition, Insect physiology, Iron, Manganese, Micronutrients, Neomyzus circumflexus, Reproduction, Symbiosis, Zinc. English summary.

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CONTEMPORARY LITERATURE--MALLOPHAGA. (I). (GE)
W Eichler J Zlotorzycka
Angew Parasitol 10(2):104-124 REF
May 1969 436.8 AN4
Bibliography, Mallophaga.

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NUCLEIC ACID. AMINO ACID. AND CARBOHYDRATE METABOLISM OF NURSE CELL NUCLEOLI IN MUSCA DOMESTICA.
W Engels D Ribbert
Experientia 25(8):805-807
15 Aug 1969 475 EX7
Amino acids, Autoradiography, Carbohydrates, Insect metabolism, Musca domestica, Nucleic acids, Ovaries.

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BIOLOGY OF THE TWO-LINED SPITTLEBUG, PROSAPIA BICINCTA, ON FLORIDA PASTURES (HOMOPTERA, CERCOPIDAE).
E B Fagan L C Kuitert
Fla Entomol 52(3):199-206 REF
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Cercopidae, Insect biology, Insect rearing, Pastures, Prosapia bicincta.

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W R Fleischman H K Miller R N Skavaril
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Blattidae, Byrsotria fumigata, Insect physiology, Maturation.

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PIGMENT DEVELOPMENT IN MALE INTEGUMENT TRANSPLANTED ONTO FEMALES IN THE DESERT LOCUST, SCHISTOCERCA GREGARIA.
W H Fogal
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1968 421 EN895
Corpora allata, Cuticle, Insect physiology, Schistocerca gregaria.

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CONCERNING EVOLUTION BY STAGES IN CERTAIN ARTHROPODS. (FR)
J P C da Fonseca
Acarologia 11(2):159-162 REF
Jul 1969 434.8 AC1
Insect biology, Insect evolution, Insect genetics, Mites, Oribatei.

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THE NATURAL INVASION OF ARTIFICIAL CLIFF SWALLOW NESTS BY OECIACUS VICARIUS (HEMIPTERA: CIMICIDAE) AND CERATOPHYLLUS PETROCHELIDON: (SIPHONAPTERA: CERATOPHYLLIDAE).
W A Foster W Olkowski
J Med Entomol 5(4):488-491
30 Oct 1968 421 J828
Ceratophyllus, Cimicidae, Insect behavior, Medical entomology, Nesting habits, Siphonaptera.

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CHANGES IN HAEMOLYMPH AND CUTICLE PROTEINS DURING THE MOLTING PROCESS IN THE AMERICAN COCKROACH.
F R Fox R R Mills
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Jun 1969 444.8 C73
Blood, Cuticle, Electrophoresis, Insect biochemistry, Molting (insects), Periplaneta americana, Proteins.

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M A Freeman
Compar Biochem Physiol 20(3):1013-1015
Mar 1967 444.8 C73
Electrophoresis, Enzymes, Gastrointestinal system, Insect biochemistry, Locusta migratoria, Protcinases.

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ON THE ABILITY OF THE FEMALE IMAGINAL CORPORA ALLATA TO INDUCE SUPERNUMARY MOLT IN BOMBYX MORI L. (FR)
S Fukuda S Takeuchi
Terre Vie 163(1):234-236
16 Jun 1969 410.9 P21
Bombyx mori, Corpora allata, Insect hormones, Insect physiology, Molting (insects).

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PRODUCTION OF THE PROTOCEPHALIC NEUROSECRETION PRODUCT IN THE AXONAL PASSAGE OF THE INSECTA, PTERYGOTA. (FR)
M Gabe
Acad Sci Compt Rend Ser D Sci Nat 264(7, 1ST SEMESTER):943-945
13 Feb 1967 505 P21
Hormones, Insect physiology, Insects, Nervous system, Secretions.

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H Galuszka J Lisiecki
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Apis mellifera, Electricity, Insect behavior, Insect physiology.

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H N B Gopalan C M S Dass
Indian J Exp Biol 7(1):29-31
Jan 1969 442.8 IN2
Autoradiography, Dacus cucurbitae, Deoxyribonucleic acid, Glands (insects), Insect biochemistry, Larvae, Salivary glands, Synthesis.

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NOTES ON THE MUSCLES CLOSING THE ANAL AND GENITAL OPENING AND ON THE REPRODUCTIVE STRUCTURE IN MATURE ORIBATEI. (FR)
F Grandjean
Acarologia 11(2):317-347 REF
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Insect morphology, Muscles, Oribatei, Reproductive organs.

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STERILE CULTURE OF MUSCA SORBENS.
B Greenberg
Entomol Soc Amer Ann 62(2):450
Mar 1969 420 EN82
Germ-free life, Insect rearing, Methodology, Musca.

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OVIPOSITION CHARACTERISTICS AND EARLY LARVAE MORTALITY OF SAPERDA INORNATA AND OBEREA SCHAUMII IN MICHIGAN ASPEN.
D G Grimble J C Nord F B Knight

Entomol Soc Amer Ann 62(2):308-315
Mar 1969 420 EN82
Cerambycidae, Larvae, Longevity, Oviposition, Populus.

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Diurnal rhythm, Insect behavior, Insect nutrition, Ixodides.

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N F Hadley R D Hill
Compar Biochem Physiol 29(1):217-226 REF
Apr 1969 444.8 C73
Aging, Centruroides sculpturatus, Insect metabolism, Insect respiration, Oxygen, Scorpionida, Sex, Temperature.

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ARTIFICIAL DIET FOR THE ADULT FROGHOPPER.
E A C Hagley
Noture 213(5074):414-415
28 Jan 1967 472 N21
Aeneolamia varia saccharina, Amino acids, Diet, Insect nutrition, Leaves, Lipids, Mortality, Sugarcane, Vitamins.

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THE EQUILIBRIUM REACTION SORBITOL (REVERSIBLE REACTION) FRUCTOSE IN THE INTACT MOSQUITO.
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Compor Biochem Physiol 29(3):1023-1030 REF
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Aedes sollicitans, Chemical reactions, Fructose, Glucitol, Insect biochemistry, Insect metabolism.

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EXTENSION OF THE HOST RANGE OF NOSEMA LOCUSTAE IN ORTHOPTERA.
J E Henry
Entomol Soc Amer Ann 62(2):452-453
Mar 1969 420 EN82
Insect diseases, Nosema locustae, Orthoptera, Surveys.

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SOME OBSERVATIONS ON FLIGHT IN ONCOPELTUS FASCIATUS (HEMIPTERA. LYGAEIDAE).
R J Hewson
Entomol Soc Brit Columbio Proc 66:45-49
01 Aug 1969 420 B77
Insect behavior, Insect flight, Oncopeltus fasciatus, Wings (insects).

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MORPHOLOGICAL, SYSTEMATIC, AND BIOMETRIC DISCUSSION ON AGRION (CERCION) LINDENI SELYS, 1840. (ODONATA ZYGOPTERA). (FR)
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Poris Mus Not Hist Notur Bull 39(2,SER 2):879-897 REF
25 Apr 1968 410.9 P213
Insect biology, Insect morphology, Insect taxonomy, Odonata, Zoogeography. German abstract.

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COMPARATIVE ECOLOGY OF SOME HYMENOPTEROUS EGG PARASITES OF THE PINE MOTH, DENDROLIMUS SPECTABILIS BUTLER (LEPIDOPTERA: LASIOCAMPIDAE), WITH SPECIAL REFERENCE TO THE FACTORS AFFECTING THEIR EFFICIENCY AS NATURAL ENEMIES. (JA
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Kyushu Univ Fac Agr Sci Bull 24(2):115-148 REF
Jun 1969 107.6 K995B
Dendrolimus spectabilis, Egg parasite, Hymenoptera, Insect biology, Insect ecology, Lasiocampidae, Surveys. English abstract.

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INTERPRETATION OF THE STRUCTURES CALLED CENTRIOLES IN THE HYPERMASTIGIAN SYMBIOTES OF TERMITES AND OF CRYPTOCERCUS. (FR)
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Acod Sci Compt Rend Ser D Sci Not 264(15, 1ST SEMESTER):1868-1871
10 Apr 1967 505 P21
Cryptocercus, Cytology, Insect physiology, Protozoa, Symbiosis, Termites.

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CHANGES IN GLAND VOLUME DURING THE POST-DIAPAUSE DEVELOPMENT IN EMBRYOS OF AULOCARA ELLIOTTI (THOMAS) (ORTHOPTERA, ACRIDIDAE).
S N van Horn
Montono Acod Sci Proc 28:75-75 REF
1968 500 M762
Acrididae, Aulocara elliotti, Embryos, Glands (insects), Insect physiology, Morphology, Volumetric analysis.

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OBSERVATIONS ON THE NESTS AND BEHAVIOUR OF SOME EURYGLOSSINE BEES (HYMENOPTERA: COLLETIDAE).
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Colletidae, Gasteruptiidae, Insect behavior, Insect nests, Predaceous insects.

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Humidity, Insect behavior, Insect nutrition, Termites, Wood.

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EXPLANATION OF THE MOLECULAR STRUCTURE OF INSECT HEMOGLOBINS. (GE)
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Noturwissenschoften 56(7):362-367 REF
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Chemical structure, Chironomus thummi, Hemoglobin, Hemolymph, Insect biochemistry.

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THE STIMULATING ACTION OF THE SPERMATOPHORE ON OOGENESIS IN ACANTHOSCELIDES OBTECTUS SAY (INSECTA, COLEOPTERA). (FR
J Huignard
Acod Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2938-2940
16 Jun 1969 505 P21
Acanthoscelides obtectus, Insect physiology, Oogenesis, Spermatophores.

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THE SPECTRAL SENSITIVITY AND THE COMPONENTS OF THE VISUAL SYSTEM IN THE STEMMATA OF SILKWORM LARVAE, BOMBYX MORI L. (LEPIDOPTERA: BOMBYCIDAE).
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Jun 1969 SB599.A6
Bombyx mori, Eyes, Insect behavior, Insect physiology, Larvae, Light.

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IN VITRO CULTURE OF OVARY OF THE PLANT BUG, IPHITA LIMBATA STAL.
P I Ittycheriah S Stephanos
Indian J Exp Biol 7(1):17-19 REF
Jan 1969 442.8 IN2
Corpora allata, Fat body, Insect physiology, Iphita limbata, Methodology, Ovaries, Tissue culture.

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NATURAL AND SYNTHETIC MATERIALS WITH INSECT HORMONES ACTIVITY. 8. JUVENILE ACTIVITY OF THE FARNESANE-TYPE COMPOUNDS ON GALLERIA MELLONELLA.
V Jarolim K Hejno F Sehnal F Sorm
Life Sci 8(16,PT 2):831-841 REF
15 Aug 1969 442.8 L62
Farnesol, Galleria mellonella, Insect physiology, Juvenile hormone.

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THE NESTING ACTIVITIES OF THE VESPOID POTTER WASP EUMENES CAMPANIFORMIS ESURIENS (FABR.) COMPARED WITH THE ECOLOGICALLY SIMILAR SPHECOID SCELIPHRON MADRASPATANUM (FABR.) (HYMENOPTERA).
S D Jayakar H Spurway
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Apr 1968 513 B63
Insect behavior, Insect biology, Insect nests, Sphecidae, Vespidae.

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AMYDRIA EFFRENTELLA FROM NESTS OF MOUNTAIN BEAVER, APLODONTIA RUFA.
N E Johnson P Martin
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Beavers, Habitats, Insect biology, Tineidae.

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THE ROLE OF SPIDERS IN THE DECREASE OF DAMAGES CAUSED BY ACRIDOIDEA ON MEADOWS - EXPERIMENTAL INVESTIGATIONS.
A Kajak L Andrezejewska Z Wojcik
Ekol Pol Ser A (SER A)16(38):755-765
1968 512 W263
Acridoidea, Araneus quadratus, Biological control (insects), Habitats, Predaceous insects. Polish summary.

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STUDIES ON THE UTILIZATION OF NATURAL ENEMIES AS BIOTIC INSECTICIDES . MATING OF PSEUDAPHYCUS MALINUS GAHAN AND SEX OF THE PROGENY. (JA)
H Kajita
Kyushu Univ Foc Agr Sci Bull 24(2):157-159
Jun 1969 107.6 K995B
Insect behavior, Insect biology, Pseudaphycus malinus, Sex behavior. English abstract.

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STUDIES ON THE UTILIZATION OF NATURAL ENEMIES AS BIOTIC INSECTICIDES . DENSITY EFFECT IN THE MASS CULTURE OF PSEUDAPHYCUS MALINUS GAHAN. (JA)
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Kyushu Univ Foc Agr Sci Bull 24(2):161-166
Jun 1969 107.6 K995B
Insect biology, Insect rearing, Parasitic insects, Population, Pseudaphycus malinus. English abstract.

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STUDIES ON THE UTILIZATION OF NATURAL ENEMIES AS BIOTIC INSECTICIDES . EFFECT OF PHYSICAL FACTORS ON THE CULTURE OF PSEUDAPHYCUS MALINUS GAHAN. (JA)
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Kyushu Univ Foc Agr Sci Bull 24(2):167-172
Jun 1969 107.6 K995B
Humidity, Insect rearing, Light, Parasitic insects, Pseudaphycus malinus, Reproduction, Temperature. English abstract.

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RESUMPTION OF YOLK FORMATION AFTER THE IMPLANTATION OF CORPORA ALLATA IN PIERIS BRASSICAE L. (LEPIDOPTERA). (FR)

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Acad Sci Compt Rend Ser D Sci Nat 264(13, 1ST SEMESTER):1735-1738
29 Mar 1967 505 P21
Corpora allata, Insect reproduction, Oogenesis, Pieris brassicae, Tissue transplants.

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NUTRITIONAL STUDIES ON EXCESSIVE LARVAL MOLTING IN THE SILKWORM BOMBYX MORI.
M Kato K Sumimoto
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Dec 1968 410 AN79
Bombyx mori, Insect nutrition, Insect physiology, Larvae, Molting (insects).

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FATTY ACID METABOLISM IN DROSOPHILA MELANOGASTER: INTERACTION BETWEEN DIETARY FATTY ACIDS AND DE NOVO SYNTHESIS.
A D Keith
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Jun 1967 444.8 C73
Chromatography, Drosophila melanogaster, Fatty acids, Insect biochemistry, Insect metabolism, Larvae, Radioisotopes.

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THE DIGESTIVE ENZYMES OF THE LARVA OF UTETHEISA PULCHELLA LINNAEUS (LEPIDOPTERAI ARCTIIDAE).
N Khatoon
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1967 421 B392
Arctiidae, Digestion, Enzymes, Insect biochemistry, Larvae, Utetheisa pulchella.

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NOTES ON REMARKABLE COLOR VARIATIONS OF CRYPTOCEPHALUS AMICULUS BALY OCCURRING ON MT. HIKO AND ITS ADJACENT AREAS.
S Kimoto
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Chrysomelidae, Color, Insect morphology, Surveys.

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THE STRUCTURE OF THE FEMALE REPRODUCTIVE SYSTEM IN THE MYMARIDAE (CHALCIDOIDEA: HYMENOPTERA).
P E King M J W Copland
Ann Mag Natur Hist 3(3,JUL-SEP):349-365 REF
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Insect morphology, Mymaridae, Reproductive organs.

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HYDRAECIA PETASITIS IN MOUNTAINOUS COUNTRY, (LEP., NOCTUIDAE). (GE)
H Kinkler F Nippel W Schmitz
Entomol Z 79(10):106-108,109-110
16 May 1969 421 EN85
Hydraecia, Insect biology, Insect ecology, Noctuidae, Zoogeography.

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LARVAL DENSITY AND ADULT FECUNDITY IN A NATURAL POPULATION OF THE PINE LOOPER (BUPALUS PINIARIUS L.).
H Klomp
Arch Neer Zool 23(1):319-334 REF
1958 410 AR27
Bupalus, Fertility, Insect biology, Insect physiology, Insect populations, Larvae. German summary.

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EGG PRODUCTION BY THE ENGELMANN SPRUCE BEETLE, DENDROCTONUS OBESUS, IN RELATION TO STATUS OF INFESTATION.
F B Knight
Entomol Soc Amer Ann 62(2):448
Mar 1969 420 EN82
Dendroctonus obesus, Insect behavior, Insect eggs, Oviposition, Population.

11314-69
THE EFFECT OF CORPORA ALLATA TRANSPLANTED FROM BOMBYX MORI TO OTHER SPECIES OF LEPIDOPTERA (LEPIDOPTERA: BOMBYCIDAE AND SATURNIIDAE).
M Kobayashi W J Burdette
Appl Entomol Zool 4(2):66-69
Jun 1969 SB599.A6
Bombycidae, Corpora allata, Development, Insect physiology, Saturniidae.

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PSILOCOCCUS PARVUS BORCHSENIUS (HOMOPTERA, COCCOIDEA)-MORPHOLOGY, BIOLOGY AND TAXONOMY.
J Koteja
Acta Zool Cracov 14(2):21-41
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Coccoidea, Food habits, Insect biology, Insect morphology, Insect taxonomy, Life cycle, Weather, Zoogeography.

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CARRION BEETLES (NECROPHORUS SPP.) IN THE NETHERLANDS (COL.). (DU)
W K Kraak H Westra
Entomol Ber 29(2):34-39
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Insect behavior, Insect collecting equipment, Silphidae. English abstract.

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FEEDING ACTIVITY OF EPILACHNA VIRGINTIOCTO-PUNCTATA ON LUFFA AEGYPTIACA.
S S Krishna A K Sinha
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Cucurbitaceae, Epilachna, Food habits, Insect behavior.

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RESEARCH ON THE FOREST ECOSYSTEM. SERIES C. THE GALEOBDOLON OAKS AND MESNIL-EGLISE WOOD SORREL (FERAGE). CONTRIBUTION NO. 8. DIPTERA COLLECTED IN WATER JARS. (FR)
S Krizelj
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):503-515
1968 105.1 G285
Diptera, Forests, Insect ecology, Plant ecology, Surveys.

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SOME BEHAVIORAL AND SEROLOGICAL OBSERVATIONS ON THE RESPONSE OF LARVAE OF BOMBYX MORI AND MALACOSOMA DISSTRIA TO BACILLUS THURINGIENSIS.
J Krywienczyk T A Angus
J Invertebrate Pathol 14(1):105-107
Jul 1969 421 J826
Bacillus thuringiensis, Bombyx mori, Immunology, Insect behavior, Larvae, Malacosoma disstria.

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THE DENSITY-RELATED ACTION OF APHIDOPHAGOUS INSECTS.
J H Kuchlein
Cesk Spolecnosti Zool Vestnik 31(2):162--169 REF
May 1967 410.9 C33
Aphididae, Density, Insect behavior, Population, Predaceous insects.

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A DISEASE OF THE HONEY BEE CAUSING BEHAVIORAL CHANGES AND MORTALITY.
J M Kulincevic G R Stairs W C Rothenbuhler
J Invertebrate Pathol 14(1):13-17 REF
421 J826
Apis mellifera, Bacterial diseases (insects), Insect behavior, Insect diseases, Mortality.

11322-69
FACTORS INFLUENCING THE DEVELOPMENT OF A POLYHEDRAL CYTOPLASMIC INTESTINAL VIRUS IN MAMESTRA BRASSICAE L. (LEPIDOPTERA). (FR)
E Kurstak
Acad Sci Compt Rend Ser D Sci Nat 264(3, 1ST SEMESTER):507-510 REF
16 Jan 1967 505 P21
Development, Insect diseases, Lymantriidae, Polyhedroses, Virus diseases (insects).

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NATURE OF CUTICLE OF THE SCORPION, HETEROMETRUS SCABER.
P A Kurup S Leelamma P L Vijayammal N R Vijayalekshmi
Indian J Exp Biol 7(1):27-28
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Chitin, Cuticle, Insect biochemistry, Polysaccharides, Scorpionida.

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A M Ladduwahetty
Ceylon J Sci Biol Sci 8(1):11-20 REF
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Dermestes maculatus, Dermestidae, Insect physiology, Nervous system, Oviposition, Secretions.

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K V Lakshminarayana
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Plants, Reviews, Thysanoptera, Zoogeography.

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STUDY OF THE HEMOLYMPH PROTEINS OF THE GYPSY MOTH (LYMANTRIA DISPAR L.) BY PAPER AND STARCH GEL ELECTROPHORESIS. RESULTS IN NORMAL ANIMALS AND THOSE EXPOSED TO VARIOUS EXPERIMENTAL CONDITIONS. (FR)
M Lamy
Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):767-770
30 Jan 1967 505 P21
Bombyx mori, Electrophoresis, Hemolymph, Insect biochemistry, Porthetria dispar, Proteins.

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IN VITRO CULTURE OF THE NYMPHAL OVARY OF TENEBRIO MOLITOR (COLEOPTERA) IN THE PRESENCE OF ECDYSONE. (FR)
A M Laverdure
Acad Sci Compt Rend Ser D Sci Nat 269(1, 2ND SEMESTER):82-85
07 Jul 1969 505 P21
Ecdysone, Ovaries, Tenebrio molitor, Tissue culture.

11328-69
EFFECTS OF ALLATECTOMY ON THE IMAGINAL DEVELOPMENT OF THE FEMALE GENITAL TRACT IN LOCUSTA MIGRATORIA MIGRATORIOIDES (INSECTA, ORTHOPTERA). (FR)
S Laverjat
Acad Sci Compt Rend Ser D Sci Nat 268(16, 1ST SEMESTER):2109-2112 REF
21 Apr 1969 505 P21
Corpora allata, Insect morphology, Insect physiology, Larvae, Locusta migratoria migratorioides, Reproductive organs.

11329-69
VARIATIONS OF PH AND OSMOTIC PRESSURE OF THE HEMOLYMPH IN GALLERIA MELLONELLA L.. (FR)
P Laviolette G Mestres
Acad Sci Compt Rend Ser D Sci Nat 265(14, 2ND SEMESTER):979-982
02 Oct 1967 505 P21

Galleria mellonella, Hemolymph, Hydrogen-ion concentration, Insect biochemistry, Metamorphosis, Osmotic pressure.

11330-69
THE SENSORY EQUIPMENT OF THE FIRST-STAGE LOCUSTA MIGRATORIA L. LARVAE MANDIBLES. (FR)
J R Le Berre A Louveaux
Acad Sci Compt Rend Ser D Sci Nat 268(24,1ST SEMESTER):2907-2910
16 Jun 1969 505 P21
Insect morphology, Larvae, Locusta migratoria, Mouth parts, Nervous system.

11331-69
A STUDY OF THE OXIDASES IN THE XYLOPHAGOUS INSECT, IPS SEXDENTATUS AND IN ITS MICROBIAL FLORA. (FR)
A Le Fay J E Courtois A Thuillier C Chararas S Lambin
Acad Sci Compt Rend Ser D Sci Nat 268(24, 1ST SEMESTER):2968-2970
16 Jun 1969 505 P21
Insect biochemistry, Ips sexdentatus, Mieroorganisms, Oxidases, Symbiosis.

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JUVENILE HORMONE AND THE FORMATION OF WARRIORS IN THE YELLOW NECKED TERMITE, CALOTERMES FLAVICOLLIS FABR.. (FR)
D Lebrun
Acad Sci Compt Rend Ser D Sci Nat 265(14, 2ND SEMESTER):996-997
02 Oct 1967 505 P21
Corpora allata, Isoptera, Juvenile hormone, Periplaneta americana, Social insects, Tissue transplants.

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OVERWINTERING PHYTOSEIID MITES IN CENTRAL UTAH APPLE ORCHARDS.
J W Leetham C D Jorgensen
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31 Jul 1969 410 G79
Apples, Insect biology, Mites, Orchards, Phytoseiidae.

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SPECIFIC ACTIVITY INCREASE OF A BALBIANI RING BY MG2 PLUS IN ISOLATED NUCLEI OF CHIRONOMUS. (GE)
M Lezzi
Chromosoma 21(1):109-122 REF
02 Mar 1967 442.8 C46
Cell nucleus, Chironomus tentans, Chironomus thummi, Insect biochemistry, Ions, Magnesium, Ribonucleic acid, Salivary glands (insects). English abstract.

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B Lindeberg
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1968 410 AN712
Chironomidae, Environment, Population, Tanytarsus gracilentus, Zoogeography.

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S R Loschiavo
J Invertebrate Pathol 14(1):89-92 REF
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Coccidiosis, Insect diseases, Insect eggs, Larvae, Protozoa, Pupae, Trogoderma parabile.

11337-69
ATTRACTION OF THE NANTUCKET PINE TIP MOTH, RHYACIONIA FRUSTRANA, TO INCANDESCENT LIGHT AND BLACKLIGHT, AND TO VIRGIN FEMALES.
C Manley M H Farrier
Entomol Soc Amer Ann 62(2):443
Mar 1969 420 EN82
Insect behavior, Light, Rhyacionia frustrana, Sex behavior, Time.

11338-69
EFFECT OF FERTILIZERS ON THE REPRODUCTION OF TETRANYCHUS TELARIUS (L.), MYZUS PERSICAE (SULZ.) AND ACYRTHOSIPHON PISUM HARRIS.
M Markkula K Tiittanen
Ann Agr Fenn 8(1):9-14 REF
1969 20 AN7
Acyrthosiphon pisum, Fertility, Fertilizers, Myzus persicae, Nitrogen, Phosphorus, Potassium, Tetranychus telarius.

11339-69
A CANDIDIASIS IN LARVAE OF THE DOUGLAS-FIR TUSSOCK MOTH, HEMEROCAMPA PSEUDOTSUGATA.
M E Martignoni P J Iwai L J Wickerham
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Entomogenous fungi, Hemerocampa pseudotsugata, Insect diseases, Larvae, Moniliasis.

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J S Martin
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Fat body, Insect biochemistry, Insect physiology, Lipids, Oogenesis, Pyrrhocoris apterus.

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THE CHEMICAL BASIS FOR THE ATTINE ANT-FUNGUS SYMBIOSIS. ABSENCE OF ANTIBIOTICS.
M M Martin J G MacConnell G R Gale
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Antibiotics, Atta, Chemical analysis, Fungi, Symbiosis.

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EFFECTS OF MAGNESIUM AND CALCIUM IONS ON THE ADENOSINETRIPHOSPHATASE ACTIVITY OF INSECT ACTOMYOSIN AT LOW IONIC STRENGTH.
K Maruyama S R Allen
Compar Biochem Physiol 21(3):713-718
Jun 1967 444.8 C73
Actomyosins, Adenosine triphosphatase, Calcium, Insect biochemistry, Ions, Lethocerus maximus, Magnesium.

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MODIFICATION OF ELECTRIC ACTIVITY OF THE DENTOCEREBRON BY TACTILE STIMULATIONS OF ANTENNA IN THE ANT CAMPONOTUS ZIGNIPERDA LATR.. (FR)
C Masson G Corbiere F Clarac
Paris Soc Biol Compt Rend 163(2):455-459
16 Jul 1969 442.9 P21
Antennae, Brain, Camponotus, Electrophysiology, Mechanoreceptors.

11344-69
HAMPEA SP., HOST OF THE BOLL WEEVIL. I. LABORATORY PREFERENCE STUDIES.
F G Maxwell D D Hardee W L Parrott J N Jenkins M J Lukefahr
Entomol Soc Amer Ann 62(2):315-318
Mar 1969 420 EN82
Anthonomus grandis, Attractants, Cotton, Food habits.

11345-69
CIRCADIAN RHYTHMS IN FEMALE ANTS, AND LOSS AFTER MATING FLIGHT.
E S McCluskey
Compar Biochem Physiol 23(2):665-677 REF
Nov 1967 444.8 C73
Formicidae, Insect behavior, Insect flight, Photoperiodism, Sex behavior, Veromessor.

11346-69
THE PHOTORESPONSE TO SKYSHINE OF THE TWO-SPOTTED SPIDER MITE, TETRANYCHUS URTICAE K. (ACARINA: TETRANYCHIDAE).
W D McEnroe
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Jul 1969 434.8 AC1
Insect physiology, Phototropism, Tetranyehidae.

11347-69
SUCESSFUL LABORATORY MATING OF APANTELES CONGREGATUS, A PARASITE OF THE TOBACCO HORNWORM, MANDUCA SEXTA.
M W McFadden
Entomol Soc Amer Ann 62(2):342-344
Mar 1969 420 EN82
Apanteles congregatus, Insect rearing, Manduca sexta, Sex behavior.

11348-69
THE APPEARANCE OF RESISTANCE IN THE LARVA OF THE COTTON ROOTBORER WEEVIL TO THE ACTION OF CHLORINATED HYDROCARBONS UNDER LABORATORY CONDITIONS. (POR)
E J R Mello
Biologico 34(12):257-261
Dec 1968 442.8 B529
Aldrin, Carbamates, Carbaryl, Chlordane, Chlorinated hydroearbons, Cureulionidae, Dieldrin, DDT, Inseetieide resistant inseets, Inseetieides, Larvae, Organophosphorus eompounds, Parathion.

11349-69
OVARIAN FUNCTION AND OVIPOSITION IN VIRGIN FEMALES AND FERTILIZED FEMALES OF DROSOPHILA MELANOGASTER WHICH HAVE BEEN SUBMITTED TO AN EXCLUSIVELY GLUCOSIDE DIET. (FR)
J Merle J David
Acad Sci Compt Rend Ser D Sci Nat 264(16, 1ST SEMESTER):2028-2030
17 Apr 1967 505 P21
Drosophila melanogaster, Glyeosides, Inseet diets, Insect nutrition, Inseet reproduetion, Ovaries, Ovulation.

11350-69
IMMATURE STAGES OF A CHALCIDOID PARASITE TENDED BY ALLODAPINE BEES. (HYMENOPTERA: PERILAMPIDAE AND ANTHOPHORIDAE).
C D Michener
Kans Entomol Soc J 42(3):247-250
Jul 1969 420 K13
Anthophorinae, Inseet biology, Larvae, Parasitie inseets, Perilampidae.

11351-69
RESISTANCE TO INSECTICIDES OF THREE STRAINS OF MUSCA DOMESTICA L. FROM BRISBANE, QUEENSLAND.
L A Millar G H S Hooper
Entomol Soc Australia (nsw) J 8(1):113-115 REF
30 Jun 1969 423.92 EN84
Chlorinated hydroearbons, Diazinon, Dieldrin, DDT, Inseetieide resistant inseets, Inseeticides, Lindane, Malathion, Musea domestiea.

11352-69
II THERMISTOR THERMOMETER FOR PHYSIOLOGICAL PREPARATIONS.
T Miller
Entomol Soc Amer Ann 62(2):443-444
Mar 1969 420 EN82
Dorsal vessel, Methodology, Periplaneta amerieana, Temperature, Thermal analysis.

11353-69
THE COCKROACH HEART AS A BIOASSAY ORGAN.
T Miller R L Metealf
Entomol Exp Appl 11(4):455-463 REF
1968 421 EN895

Biological assay, Dorsal vessel, Insect physiology, Methodology, Nervous system, Periplaneta americana.

11354-69
ACOUSTICAL COMMUNICATION BY LIPARA LUCENS (DIPTERA, CHLOROPIDAE).
J H Mook C G Bruggemann
Entomol Exp Appl 11(4):397-402
1968 421 EN895
Chloropidae, Insect behavior, Lipara lucens, Sound waves, Vibration.

11355-69
HABITAT SELECTION OF LABORATORY POPULATIONS OF TRIBOLIUM.
M T Morgan
Entomol News (philadelphia) 80(8):207-224 (CONT.)
Aug 1969 421 EN88
Habitats, Insect behavior, Insect physiology, Insect rearing, Temperature, Tribolium castaneum, Tribolium confusum.

11356-69
OBSERVATIONS AND RECORDS FOR SOME BRITISH THYSANOPTERA. XI THRIPIDAE, BELOTHRIPS ACUMINATUS HALIDAY.
G D Morison
Entomologist (london) 102(1274):165-172 REF
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Insect biology, Thripidae, Thysanoptera.

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A SIMPLE RAPID METHOD FOR THE MULTIPLE ASSAY OF TRYPTOPHAN PYRPOLASE IN DROSOPHILA.
W W Morrison W J Frajola
Ohio J Sci 68(6):285-290
Nov 1968 410 OH3
Chemical analysis, Drosophila, Enzymes, Insect biochemistry, Pyrrole, Tryptophan.

11358-69
LARVAL AGGREGATION FORMATION AND POPULATION DENSITY INTERRELATIONS IN AEDES TAENIORHYNCHUS, THEIR EFFECTS ON PUPAL ECDYSIS AND ADULT CHARACTERISTICS AT EMERGENCE.
J K Nayar D M Sauerman
Entomol Exp Appl 11(4):423-442 REF
1968 421 EN895
Aedes taeniorhynchus, Emergence, Insect morphology, Insect physiology, Larvae, Molting (insects), Population.

11359-69
SYMBIONTIC INTERRELATIONSHIPS BETWEEN MICROBES AND AMBROSIA BEETLES. III. ERGOSTEROL AS THE SOURCE OF STEROL TO THE INSECT.
D M Norris J M Baker H M Chu
Entomol Soc Amer Ann 62(2):413-414
Mar 1969 420 EN82
Ergosterol, Microorganisms, Scolytidae, Sterols, Symbiosis, Xyleborus ferrugineus.

11360-69
LABORATORY EXPERIMENTS ON THE SOUND OF THE WING BEATS OF CULEX PIPIENS LINNAEUS DURING DIAPAUSE. (GE)
D Novak
Beitr Entomol 17(5-8):637-638
1967 421 B392
Insect flight, Insect physiology, Sound waves, Wings (insects). English and Russian abstracts.

11361-69
EVIDENCE OF SEX ATTRACTANT IN FEMALE DYSDERCUS CINGULATUS FABR.
Z Osmani M B Naidu
Indian J Exp Biol 5(1):51
Jan 1967 442.8 IN2
Dysdercus cingulatus, Insect behavior, Phermones, Sense organs, Sex attractants.

11362-69
INVESTIGATIONS INTO THE POPULATION DYNAMICS OF PARASITES AND HYPERPARASITES OF BREVICORYNE BRASSICAE (L.) (HOMOPTERA, APHIDIDAE). (GE)
D Paetzold G Vater
Acta Ent Bohemoslov 64(2):83-90
1967 420 C33
Aphididac, Aphidiinae, Brevicoryne brassicae, Insect ecology, Parasitic insects, Population. Czech abstract.

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COMPARATIVE NOTES ON THE DISTRIBUTION, ECOLOGY AND BEHAVIOUR OF SOME DAMSELFLIES (ODONATA: COENAGRIIDAE).
M J Parr
Entomologist (london) 102(1274):151-161 REF
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Insect behavior, Insect ecology, Odonata, Zoogeography.

11364-69
ABSORPTION AND METABOLISM OF A 10 PER CENT GLUCOSE SOLUTION BY MOSQUITOES CULEX PIPIENS MOLESTUS FORSK. (CZ)
J Paulovova S Paulov
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Absorption (biological), Culex pipiens molestus, Glucose, Insect metabolism, Insect physiology. German and Russian abstracts.

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A METHOD FOR DETERMINING THE DOSAGE-MORTALITY CURVE OF MALATHION AGAINST THE PEA APHID, ACYRTHOSIPHON PISUM (HARRIS) (HOMOPTERA: APHIDIDAE).
W D Pearson
Entomol Soc Brit Columbia Proc 66:3-9 REF
01 Aug 1969 420 B77
Acyrthosiphon pisum, Aphididae, Dosage, Insect physiology, Insecticides, Malathion, Mortality, Organophosphorus compounds, Statistical analysis.

11366-69
ARTHROPOD PREPATORS OF IMMATURE DIPTERA DEVELOPING IN POULTRY DROPPINGS IN NORTHERN CALIFORNIA. PART I. DETERMINATION, SEASONAL ABUNDANCE AND NATURAL COHABITATION WITH PREY.
J H Peck J R Anderson
J Med Entomol 6(2):163-167 REF
May 1969 421 J828
Diptera, Insect identification, Musca domestica, Parasitism, Poultry, Surveys.

11367-69
PENETRATION OF KEYSTONE VIRUS IN ARTIFICIALLY INFECTED FEMALE AEDES INFIRMATUS (DYAR AND KNAB).
R E Penny D J Taylor
J Med Entomol 6(1):81-82
30 Jan 1969 421 J828
Aedes infirmatus, Arboviruses, Insect diseases, Insect physiology, Medical entomology.

11368-69
SENSITIVITY OF SITOPHILUS ZEAMAIS MOTS (0 ORYZEA L.) TO IONIZING RADIATIONS AT DIFFERENT STAGES OF ITS DEVELOPMENT. RADIOGRAPHICAL STUDY OF THE ENDOGENOUS STAGES AND ACTOGRAPHICAL REGISTRATION. (FR)
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Ann Epiphyt 19(3):513-531 REF
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Insect physiology, Ionizing radiation, Radiography, Sitophilus zeamais, Sound waves. English abstract.

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A COELOMOMYCES INFECTION OF AEDES AUSTRALIS IN NEW ZEALAND.
J S Pillai
J Invertebrate Pathol 14(1):93-95
Jul 1969 421 J826
Aedes, Coelomomyces, Entomogenous fungi, Insect diseases.

11370-69
LIFE HISTORY AND BIOLOGY OF CALOGLYPHUS ANOMALUS NESBITT (ACARINA: ACARIDAE).
P R P Pillai P W Winston
Acarologia 11(2):295-303 REF
Jul 1969 434.8 AC1
Acaridae, Insect behavior, Insect biology, Life cycle, Mites.

11371-69
A SIMPLE TECHNIQUE FOR HAND-PAIRING LIMENITIS BUTTERFLIES (NYMPHALIDAE).
A P Platt
Lepidopterists Soc J 23(2):109-112
29 May 1969 421 L554
Insect rearing, Methodology, Nymphalidae, Sex behavior.

11372-69
PROTEIN SYNTHESIS AND NUCLEIC ACID METABOLISM IN THE FAT BODY OF THE LARVA OF THE BLOWFLY, CALLIPHORA ERYTHROCEPHALA.
G M Price
J Insect Physiol 15(6):931-944 REF
Jun 1969 421 J825
Calliphora vicina, Fat body, Insect biochemistry, Insect metabolism, Larvae, Nucleic acids, Proteins, Synthesis.

11373-69
VISUAL RESPONSES OF APPLE MAGGOT FLIES, RHAGOLETIS POMONELLA (DIPTERA: TEPHRITIDAE): ORCHARD STUDIES.
R J Prokopy
Entomol Exp Appl 11(4):403-422 REF
1968 421 EN895
Color, Field studies, Insect behavior, Rhagoletis pomonella, Tephritidae, Vision.

11374-69
SOME REGULATORY MECHANISM IN POPULATIONS OF TRIBOLIUM CONFUSUM DUVAL AND TRIBOLIUM CASTANEUM HERBST.
T Prus
Ekol Pol Ser A (SER A)16(16):335-374 REF
1968 512 W263
Fertility, Insect eggs, Insect populations, Predaceous insects, Tribolium castaneum, Tribolium confusum. Polish summary.

11375-69
THE APPLICABILITY OF SOME POPULATION GROWTH MODELS TO A SINGLE-SPECIES LABORATORY POPULATION.
J E Rabinovich
Entomol Soc Amer Ann 62(2):437-442 REF
Mar 1969 420 EN82
Insect rearing, Nasonia vitripennis, Population, Statistical analysis.

11376-69
A NOTE ON LEPTOMASTIX NIGROCOXALIS COMP. AS A PARASITE OF CENTROCOCCUS INSOLITUS GREEN.
R R Rawat B N Modi
Mysore J Agr Sci 2(3):239-242
1968 S19.M9
Biological control (insects), Coccidae, Encyrtidae, Parasitism, Predaceous insects.

11377-69
ON THE NEST ARCHITECTURE OF MEGACHILE (CHALICODOMA) PARIETINA FOURCROY (HYM., APIDAE). (GE)
O Rebmann
Entomol Z 79(12):138-139
16 Jun 1969 421 EN85
Apidae, Insect behavior, Insect nests.

11378-69
POPULATION INCREASE OF TWO SPECIES OF PSEUDOPITYOPHTHORUS IN OAK BRANCHES.

C O Rexrode
Entomol Soc Amer Ann 62(2):448-449
Mar 1969 420 EN82
Population, Pseudopityophthorus, Quercus, Scolytidae.

11379-69
TOXINS FROM THE ENTOMOGENOUS FUNGUS METARRHIZIUM ANISOPLIAE: ISOLATION OF DESTRUXINS FROM SUBMERGED CULTURES.
D W Roberts
J Invertebrate Pathol 14(1):82-88
Jul 1969 421 J826
Entomogenous fungi, Extraction, Galleria mellonella, Metarrhizium anisopliae, Proteins, Toxicology, Toxins.

11380-69
AUTOGENY IN THE DEERFLY, CHRYSOPS FULIGINOSUS (DIPTERA: TABANIDAE).
E G Rockel
J Med Entomol 6(2):140-142
May 1969 421 J828
Blood, Chrysops, Eggs, Insect ecology, Insect physiology, Nectar.

11381-69
THE SUSCEPTIBILITY TO INSECTICIDES OF CYDIA POMONELLA (LINNEAUS) (LEPIDOPTERA: TORTRICIDAE) FROM QUEENSLAND.
H A Rose G H S Hooper
Entomol Soc Australia (nsw) J 8(1):79-86 REF
30 Jun 1969 423.92 EN84
Azinphosmethyl, Biological assay, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, DDT, Insecticide application, Insecticide resistant insects, Insecticides, Laspeyresia pomonella, Organophosphorus compounds.

Populations of Cydia pomonella (Linnaeus) from the granite belt area of south-east Queensland were tested to determine their susceptibility to DDT, azinophos-methyl and carbaryl. Resistance to DDT in one strain was demonstrated by the topical application test method. By means of a continuous-exposure toxicological test, which is described, no evidence of resistance to azinophos-methyl or carbaryl was found in any of the populations tested.

11382-69
SCORPION COLLECTING.
F E Russell
Toxicon 6(4):307-308
May 1969 391.8 T66
Cuticle, Insect collecting equipment, Scorpionida, Ultraviolet rays.

11383-69
RESPONSE OF ISOLATED PUPAL ABDOMENS OF SILKWORMS, BOMBYX MORI L., TO INJECTED PONASTERONE A (LEPIDOPTERA: BOMBYCIDAE).
H Sakurai K Hasegawa
Appl Entomol Zool 4(2):59-65 REF
Jun 1969 SB599.A6
Apidae, Bombyx mori, Development, Insect physiology, Plant hormones, Pupae.

11384-69
RESULTS OF ORGANOTYPIC CULTURES OF THE CEREBRAL GANGLION AND THE SUBESOPHAGIAL GANGLION OF AESCHNA CYANEA MULL (INSECTA, ODONATA). SURVIVAL OF THE ORGANS AND DEVELOPMENT OF THE NEUROSECRETORY ELEMENTS. (FR)
F Schaller J Meunier
Acad Sci Compt Rend Ser D Sci Nat 264(11, 1ST SEMESTER):1441-1444
13 Mar 1967 505 P21
Culture media, Ganglion cells, Insect physiology, Nervous system, Odonata, Secretions, Tissue culture.

11385-69
HAEMOLYMPH PROTEINS AND WATER UPTAKE IN FEMALE LEUCOPHAEA MADERAE DURING THE SEXUAL CYCLE.
R Scheurer R Leuthold
J Insect Physiol 15(6):1067-1077 REF
Jun 1969 421 J825
Hemolymph, Insect biochemistry, Leucophaea maderae, Proteins, Reproduction, Water.

11386-69
RELATIVE EFFECTIVENESS OF CHEMICAL REPELLENTS AGAINST PHLEBOTOMUS PAPATASI (SCOPOLI).
M L Schmidt J R Schmidt
J Med Entomol 6(1):79-80 REF
30 Jan 1969 421 J828
Chemical control (insects), Insect repellents, Medical entomology, Phlebotomus.

The chemicals tested were: Chloro-diethylbenzamide, ethoxy-diethylbenzamide, diethyltoluamide, butyryl tetrahydroquinoline, Indalone, dimethyl carbate, ethyl hexanediol, and dimethyl phthalate.

11387-69
INSECTICIDE SUSCEPTIBILITIES OF PHLEBOTOMUS PAPATASI (SCOPOLI) FROM EGYPT AND THE SUDAN.
M L Schmidt J R Schmidt
J Med Entomol 6(1):87-90 REF
30 Jan 1969 421 J828
Chlorinated hydrocarbons, Dieldrin, DDT, Insect physiology, Insecticides, Medical entomology, Phlebotomus.

11388-69
COMPENSATION OF THE BACK DRIFT OF CADDIS FLY LARVAE (INSECTA, TRICHOPTERA). (GE)
H Schumacher
Naturwissenschaften 56(7):378
Jul 1969 474 N213
Aquatic insects, Hydropsyche, Insect behavior, Insect ecology, Larvae, Marine biology, Trichoptera.

11389-69
THE LIFE HISTORY AND HABITS OF CHLOSYNE FULVIA (NYMPHALIDAE).
J A Scott
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1968 421 L554
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P Bartos D J Samborski P L Dyck
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Coconuts, Plant diseases, Zoogeography.

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F I Frosheiser
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Bibliography, Fungi, Necrosis, Olpidium, Plant disease transmission, Polymyxa graminis, Tobacco, Virus diseases (plants).

11467-69
SECONDARY MECHANISMS OF ANTIFUNGAL ACTION OF SUBSTITUTED 8-QUINOLINOLS. II. SUBSTITUTED QUINOLINES.
H Gershon R Parmegiani M W McNeil Y J Hinds
Boyce Thompson Inst Contrib 24(6,JAN-MAR):149-150
Mar 1969 451 B69
Aspergillus niger, Aspergillus oryzae, Chelation, Chemistry, Fungicides, Fungus diseases (plants), Hydrolysis, Myrothecium, Quinolinol, 8-, Trichoderma virde, Trichophyton mentagrophytes.
A series of substituted quinolines that contained only hydrogen in the 8-position were studied in order to establish whether or not fungicidal activity was due to hydrolysis of the methoxy group or whether chelation was the major mechanism of fungitoxication.

11468-69
INVESTIGATIONS ON MYCOPLASMA-LIKE MICROORGANISMS IN THE JASSID VECTOR AND IN THE PLANTS INFECTED BY YELLOW VIRUSES. (FR
J Giannotti C Vago G Devauchelle G Marchoux
Entomol Exp Appl 11(4):470-474 REF
1968 421 EN895
Cicadellidae, Clover, Electron microscopy, Insect vectors, Mycoplasma, Phyllody, Plant diseases, Stolbur.

11469-69
AN EXAMINATION OF FUNGI ASSOCIATED WITH GROUNDNUT PODS.
G A Gilman
Trop Sci 11(1):38-48 REF
1969 26 T756
Aspergillus flavus, Fungus diseases (plants), Peanuts, Surveys.

11470-69
BACTERIAL WILT IN MALAYA.
D A Griffiths W L Lim
Plant Dis Rep 53(8):597-600
Aug 1969 1.9 P69P
Bacterial wilt, Peanuts, Plant diseases, Plant physiology, Pseudomonas solanacearum.

11471-69
CROP DISEASE REVIEW--COTTON.
A D Hanna
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):186-193 MAP
Jun 1969 423.92 G798
Bacterial diseases (plants), Chemical control (plant diseases), Cotton, Fungus diseases (plants), Plant diseases, Plant geography, Reviews, Virus diseases (plants).

11472-69
MICROBIOLOGICAL PROPERTIES OF CAPTAN. (GE)
J C Hansen
Z Lebensmittel-untersuchung -forsch 139(6):378-388 REF
02 Jun 1969 384 Z39
Bacillus licheniformis, Captan, Chlorinated hydrocarbons, Fungicides, Hydrogen-ion concentration, Microbiology, Spectrophotometry.

11473-69
VARIETAL DIFFERENCES IN OAT BLUE DWARF VIRUS RESISTANCE AND SYMPTOM EXPRESSION.
A S Heagle M B Moore
Plant Dis Rep 53(8):664-666
Aug 1969 1.9 P69P
Blue dwarf (oats), Oats, Plant disease resistance, Plant diseases, Plant morphology, Virus diseases (plants).

11474-69
A TECHNIQUE FOR RAPID STANDARDIZATION OF CONIDIAL SUSPENSIONS OF CERATOCYSTIS ULMI.
W K Hock B R Roberts D E Wuertz
Plant Dis Rep 53(8):640-641

Aug 1969 1.9 P69P
Ceratocystis ulmi, Conidia, Density, Fungi, Methodology, Mycology.

11475-69
BASAL CANKER OF WHITE PINE.
D R Houston
Forest Sci 15(1):66-83 REF
Mar 1969 99.8 F7632
Etiology, Formica fusca, Fungus diseases (plants), Fusarium, Pinus strobus, Plant injuries, Verticicladiella.

11476-69
PINUS SABINIANA AND PINUS MURICATA AS HOSTS FOR DIPLODIA PINEA IN CALIFORNIA.
R S Hunt
Plant Dis Rep 53(8):675-677 REF
Aug 1969 1.9 P69P
Fungus diseases (plants), Macrophoma pinea, Pinus muricata, Pinus sabiniana.

11477-69
SIGNIFICANT SPECIMENS OF ELSINOE AND SPHACELOMA TAKEN BY U. S. PLANT QUARANTINE INSPECTORS II.
A E Jenkins A J Watson
Plant Dis Rep 53(8):672-675 REF
Aug 1969 1.9 P69P
Elsinoe, Fungus diseases (plants), Plant quarantine, Sphaceloma, Surveys.

11478-69
EFFECT OF PLANTING DATES ON THE INCIDENCE AND SEVERITY OF CORN VIRUS DISEASES.
A J Keaster M S Zuber M L Fairchild P J Loesch
Agron J 61(3,MAY-JUN):363-364
Jun 1969 4 AM34P
Corn, Mosaic, Planting date, Stunt, Virus diseases (plants).

A planting date study was conducted for a three year period to determine the effects on the severity and incidence of certain symptoms associated with maize dwarf mosaic or corn stunt. Results indicated that the disease incidence and severity increased with each delay in planting.

11479-69
ASSOCIATION OF PEPPER RINGSPOT VIRUS (BRAZILIAN TOBACCO RATTLE VIRUS) AND HOST CELL MITOCHONDRIA.
E W Kitajima A S Costa
J Gen Virol 4(2):177-181 REF
Mar 1969 QR360.A1J6
Mitochondria, Redpeppers (vegetable), Ring spot, Virology, Virus diseases (plants).

11480-69
ULTRASTRUCTURE OF POTATO AND DATURA STRAMONIUM PLANT CELLS INFECTED WITH POTATO VIRUS X.
F E Kozar Y M Sheludko
Virology 38(2):220-229 REF
Jun 1969 448.8 V81
Cells, Datura stramonium, Potatoes, Virus diseases (plants), Virus X. English summary.

11481-69
CHERELLE WILTING IN COCOA INDUCED BY TIBA.
J Krekule
Trop Agr &st Augustine& 46(1):69-72 REF
Jan 1969 26 T754
Cherelle wilt (cacao), Chloroethyl)trimethylammonium chloride, (2-, Cocoa, Triiodobenzoic acid, 2,3,5-. English summary.

11482-69
INTERIM REPORT ON VIRUS DISEASES OF PAWPAW IN EAST AFRICA.
H Y Kulkarni F M L Sheffield
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):184-185
Jun 1969 423.92 G798
Caricaceae, Plant diseases, Virus diseases (plants).

11483-69
FROM THE CLOVER TO THE STRAWBERRY PLANT: TRANSMISSION OF A VIRUS DISEASE BY CICADELLIDAE. (FR)
P Lherault
Phytoma 20(195):41
Feb 1968 464.8 P563
Acuccphalus nervosus, Cicadellidae, Clover, Euscelis plebejus, Plant disease transmission, Strawberries, Virus diseases (plants).

11484-69
A NEW CONTRIBUTION TO THE USE OF DAMP SULPHUR AGAINST THE MILDEW OF GRAPES: EXPERIMENTAL RESULTS. (FR)
P Malbrunot
Phytoma 20(195):31-33
Feb 1968 464.8 P563
Chemical control (plant diseases), Dosage, Fungicides, Fungus diseases (plants), Grapes, Mildew, Sulfur, Tables (data).

11485-69
UREDO HAMELIAE--A NEW REPORT FOR THE CONTINENTAL UNITED STATES.
F D Matthews
Plant Dis Rep 53(8):656
Aug 1969 1.9 P69P
Fungus diseases (plants), Plant diseases, Rubiaceae, Urcdo.

11486-69
RESEARCH ON FUSARIUM DISEASE. IV. FUSARIUM TAXONOMY. (FR)
C M Messiaen R Cassini
Ann Epiphyt 19(3):387-454 REF
1968 464.9 F84AN
Bibliography, Fungus diseases (plants), Fusarium, Habitats, Plant taxonomy. English abstract.

11487-69
EVALUATION OF NINE FUNGICIDES IN CONTROLLING FLAG SMUT OF WHEAT.
P B Metcalfe J F Brown
Plant Dis Rep 53(8):631-633 REF
Aug 1969 1.9 P69P
Chemical control (plant diseases), Fungicides, Plant physiology, Urocystis agropyri, Wheat.

11488-69
STUDIES ON LOSSES IN WHEAT YIELD DUE TO ARTIFICIAL EPIDEMIC OF BLACK RUST OF WHEAT AT DIFFERENT STAGES OF GROWTH.
A B Mishra S P Singh S M Sharma
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):232-234
Jun 1969 423.92 G798
Black rust, Crop losses, Plant disease resistance, Plant physiology, Wheat.

11489-69
WHITE ROT OF ONION IN LUCKNOW.
K G Mukerji J P Tewari
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):235-236
Jun 1969 423.92 G798
Fungus diseases (plants), Humidity, Onions, Plant diseases, Sclerotium rolfsii.

11490-69
ACQUISITION OF MAIZE DWARF MOSAIC VIRUS BY THE GREENBUG, SCHIZAPHIS GRAMINUM.
L R Nault R H E Bradley
Entomol Soc Amer Ann 62(2):403-406 REF
Mar 1969 420 EN82
Corn, Disease transmission, Dwarf disease, Insect vectors, Mosaic, Schizaphis graminum.

11491-69
OCCURRENCE OF FUNGI ANTAGONISTIC TO PORIA WEIRII IN A DOUGLAS-FIR FOREST SOIL IN WESTERN OREGON.
E E Nelson
Forest Sci 15(1):49-54
Mar 1969 99.8 F7632
Biology, Cephalosporium, Penicillium, Poria weirii, Pseudotsuga menziesii, Soil fungi, Surveys, Trichoderma viride.

11492-69
ELECTRON MICROSCOPIC STUDIES ON THE REPLICATIVE FORM OF ALFALFA MOSAIC VIRUS RNA. (FR)
A Nicolaieff L Hirth L Pinck
J Gen Virol 4(2):283-286 REF
Mar 1969 QR360,A1J6
Alfalfa, Chromatography, Electron microscopy, Mosaic, RNA viruses, Virology. English summary.

11493-69
THE STRUCTURE OF TOBACCO MOSAIC VIRUS FROM BASE ANALOGUE TREATED TOBACCO LEAVES.
A Nomura T Taniguchi T Hirai
Jap J Microbiol 13(2):193-197
Jun 1969 448.8 J273
Chemical structure, Chromatography, Mosaic, Plant biochemistry, Thiouracil, Tobacco, Tobacco mosaic virus.

11494-69
EFFECT OF MINERAL NUTRITION ON THE FUSARIUM BROWN FOOT-ROT OF WHEAT.
P E Onuorah
Plant Soil 30(1):99-104 REF
Feb 1969 450 P696
Brown foot rot, Fungus diseases (plants), Fusarium, Minerals, Plant nutrition, Wheat.

11495-69
PRINCIPAL DISEASES OF ROSES, ROSA SPP. (SP)
R M I Orozco
Fitofilo 60(21,OCT-DEC):29-34
Dec 1968 421 F55
Captan, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Rosa, Zineb.

11496-69
A SURVEY OF PAWPAW DEBILITY IN TANZANIA.
W T H Peregrine
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):177-183
Jun 1969 423.92 G798
Ascochyta, Caricaceae, Fungus diseases (plants), Meloidogyne javanica, Moniliales, Pythium, Surveys.

11497-69
SUSCEPTIBILITY OF HEVEA RUBBER CLONES TO LEAF DISEASE CAUSED BY TWO SPECIES OF PHYTOPHTHORA.
P N R Pillay K H Chee
China Plant Protect Bull 16(3):49-51
Jun 1968 464.9 C47
Fungus diseases (plants), Hevea, Leaf diseases, Phytophthora meadii, Phytophthora palmivora.

11498-69
STIMULATION OF BIOSYNTHESIS OF TOBACCO MOSAIC VIRUS BY ANTIMETABOLITES.
E Sander
J Gen Virol 4(2):235-244 REF
Mar 1969 QR360.A1J6
Antimetabolites, Biosynthesis, Mosaic, Tobacco, Virology, Virus diseases (plants).

11499-69
STUDIES ON THE FUNGICIDAL CONTROL OF RICE BLAST.
S N De S Seneviratne
Trop Agr &peradeniya& 123(3-4,JUL-DEC):85-98
Dec 1967 26 T751
Blast, Chemical control (plant diseases), Dithiocarbamates, Ferbam, Fungicides, Mercury compounds, Organotin compounds, Rice, Triphenyltin acetate.

Organomercury, organotin and dithiocarbamate fungicides were evaluated and compared for control of rice blast in Ceylon. Verdasan (organomercury), Antracol (dithiocarbamate) and Brestan 60

(fentin acetate) were all more effective than the currently recommended compoundfermate (ferbam).

11500-69
EFFECTS OF APHID-TRANSMITTED VIRUSES ON THE STRAWBERRY CULTIVARS NORTHWEST AND COLUMBIA.
C H Shanks P C Crandall
Plant Dis Rep 53(8):639-640
Aug 1969 1.9 P69P
Chaetosiphon fragaefolii, Crinkle, Crop yields, Mottle, Plant diseases, Strawberries, Virus diseases (plants), Yellow edge.

11501-69
SUSCEPTIBILITY OF TEA CLONES TO COLLAR AND BRANCH CANKER DISEASE (PHOMOPSIS THEAE).
N Shanmuganathan R L De Silva
Ceylon Tea Res Inst Tea Quart 39(4):92-93
Dec 1968 68.18 C33
Canker, Fungus diseases (plants), Phomopsis, Plant disease resistance, Plant diseases, Tea.

11502-69
A NEW RECORD OF PESTALOTIOPSIS PALMARUM (COOKE) STEYAERT ON CHILLIES (CAPSICUM ANNUUM. L).
K Sivaprakasam N Shanmugam C V Govindaswamy C S Krishnamurthy
Madras Agr J 56(1):39-40
Jan 1969 22 M262
Chilis, Coconuts, Fungus diseases (plants), Pestalotiopsis.

11503-69
ROOT SURFACE FUNGI OF CROTALARIA.
K Sivasithamparam C B Sulochana
Plant Soil 30(1):34-40
Feb 1969 450 P696
Fungi, Fungus cultures, Microscopy, Mosaic, Plant physiology, Roots, Sunn crotalaria, Virus diseases (plants).

11504-69
APPLICATION OF IMMUNOPRECIPITATION IN AGAR GEL FOR THE SEROLOGICAL TYPING OF SOYBEAN ROOT-NODULES.
V Skrdleta
Folia Microbiol 14(1):32-35 REF
1969 448.3 C332
Bacterial diseases (plants), Immunodiagnosis, Methodology, Plant diseases, Serodiagnosis, Soybeans.

11505-69
STEM PITTING OF YELLOW BUD MOSAIC VIRUS--INFECTED PEACHES.
S H Smith J A Traylor
Plant Dis Rep 53(8):666-667 REF
Aug 1969 1.9 P69P
Peaches, Plant diseases, Plant morphology, Stem pitting, Surveys, Virus diseases (plants), Yellow bud mosaic.

11506-69
THE DISEASES OF ALFALFA, MEDICAGO SATIVA L.
M O Solis
Fitofilo 60(21,OCT-DEC):44-48
Dec 1968 421 F55
Alfalfa, Fungus diseases (plants), Plant disease resistance, Plant nutrition.

11507-69
PLANT VIRUSES. THEIR CHARACTERISTICS AND IDENTIFICATION. (FR
G Sommereyns
J. Duculot S.A., Gembloux, Belgium 345P REF
1967 SB736.S6
Anaphylaxis, Biochemistry, Complement fixation, Diagnosis, Insect vectors, Plant disease resistance, Plant disease transmission, Plant physiology, Serological tests, Virus diseases (plants).

11508-69
THE EFFECT OF LOW DOSES OF GAMMA RAYS UPON THE RATE OF INFECTION OF PLANTS WITH GRASS MILDEW (ERYSIPHE GEAMINIS DC). I. (POL)
S Starzycki J Pala E Konopko
Hodowla Roslin Aklimatyzacja Nasiennictwo 11(1):103-108 REF
1967 64.8 H66
Barley, Erysiphe graminis, Fungus diseases (plants), Gamma rays, Plant disease transmission, Seedlings. English and Russian summaries.

11509-69
CONTRIBUTION TO THE ETIOLOGY OF SOME GALLS FOUND IN ISRAEL.
M Sternlicht
Marcellia 35(1-2,MAR-JUN):45-61 REF
Jun 1968 421 M33
Cynipidae, Gall-making insects, Insect morphology, Plant galls, Quercus.

11510-69
FOREST MICROFUNGI. I. AMPULLIFERINA PERSIMPLEX N. GEN., N. SP. ON LEAVES OF LABRADOR TEA.
B C Sutton
Can J Bot 47(4):609-616
Apr 1969 470 C16C
Ampulliferina persimplex, Forests, Fungus diseases (plants), Leaves, Microorganisms, Tea.

11511-69
MYCOFLORA RESEARCH IN THE SURROUNDINGS OF THE COMMUNITY OF ALBAC. (RUM)
E Szasz S Mocan
Cluj Univ Babes Bolyai Stud Ser Biol 13(1):45-50 REF
1968 442.9 C62
Biology, Fungi, Fungus diseases (plants), Mycoflora, Nurseries, Plant protection, Zoogeography. French and Russian summaries listing of 75 fungi.

11512-69
REACTION OF DENT CORN INBREDS AND HYBRIDS TO ACERIA TULIPAE AND WHEAT STREAK MOSAIC VIRUS.
J B Tunac C M Nagel
Plant Dis Rep 53(8):662-664
Aug 1969 1.9 P69P
Aceria tulipae, Dent corn, Mosaic, Plant breeding, Plant disease resistance, Plant diseases, Virus diseases (plants).

11513-69
EFFECT OF SEED AND ROOT EXUDATES ON THE GROWTH OF XANTHOMONAS PHASEOLI VAR. FUSCANS.
V Vancura M Stanek A Hanzlikova
Folia Microbiol 14(1):23-26
1969 448.3 C332
Bacterial diseases (plants), Barley, Beans, Physiology, Plant diseases, Roots, Secretions, Seeds, Wheat, Xanthomonas phaseoli.

11514-69
NUTRITIONAL REQUIREMENTS OF XANTHOMONAS PHASEOLI VAR. FUSCANS.
V Vancura A Hanzlikova
Folia Microbiol 14(1):27-31
1969 448.3 C332
Culture media, L-glutamic acid, Nutrition, Physiology, Saccharides, Tissue culture, Xanthomonas phaseoli.

11515-69
INOCULATION.
J M Waterson
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):171-176 REF
Jun 1969 423.92 G798
Animal vectors, Bacterial diseases (plants), Dusting, Fungus diseases (plants), Immunization, Methodology, Spraying.

11516-69
FREEZE-ETCHING OBSERVATIONS ON TOBACCO LEAVES INFECTED WITH TOBACCO MOSAIC VIRUS.
J H M Willison E C Cocking
J Gen Virol 4(2):229-233 REF
Mar 1969 QR360.A1J6
Mosaic, Tobacco, Virology, Virus diseases (plants).

11517-69
SUNFLOWER, A NEW HOST OF COLEOSPORIUM MADIA.
C E Yarwood
Plant Dis Rep 53(8):648
Aug 1969 1.9 P69P
Coleosporium, Fungus diseases (plants), Madia sativa, Pinus radiata, Plant diseases, Plant ecology, Sunflowers.

11518-69
EPIDEMIC DECLINE OF BREADFRUIT IN THE PACIFIC ISLANDS.
P Zaiger G A Zentmyer
China Plant Protect Bull 15(2):25-29
Apr 1967 464.9 C47
Breadfruit, Dieback, Fungus diseases (plants), Fusarium solani, Phomopsis, Pythium, Surveys.

ARTHROPODS

11519-69
COCCIDS (COCCOIDEA: HOMOPTERA: INSECTA) AFFECTING FRUIT PLANTS IN BIHAR (INDIA).
S M Ali
Bombay Natur Hist Soc J 65(1):120-137 REF
Apr 1968 513 B63
Coccoidea, Fruit, Surveys.

11520-69
THE PHYTOPHAGOUS FAUNA OF A MISTLETOE (LORANTHUS LONGIFLORUS DESR.: LORANTHACEAE) IN WEST PAKISTAN.
G M Baloch A I Mohyuddin
Weed Res 9(1):62-64
Mar 1969 79.8 W412
Loranthus, Phytophagous insects, Phytophagous mites, Surveys.

11521-69
FOREST CHARACTER AND VULNERABILITY OF BALSAM FIR TO SPRUCE BUDWORM IN MINNESOTA.
H O Batzer
Forest Sci 15(1):17-25 MAP REF
Mar 1969 99.8 F7632
Abies balsamea, Choristoneura fumiferana, Forest surveys, Picea glauca, Picea mariana, Plant injuries, Stand density.

11522-69
HISTOCHEMICAL EVIDENCE OF THE ABUNDANCE OF SOLUBLE AMINE PRODUCTS IN THE NUTRIENT TISSUES OF GALLS. (FR)
R Bronner J Meyer
Marcellia 35(1-2,MAR-JUN):105-110 REF
Jun 1968 421 M33
Amines, Aulax glechomae, Cecidomyiidae, Gall-making insects, Glechoma hederacea, Histochemistry, Plant biochemistry, Quercus.

11523-69
THE EFFECT OF OTHER NEW INSECTICIDES IN THE CONTROL OF BLACK GRUBS OF CITRUS. (POR)
R Calza N S Filho A Orlando
Biologico 34(12):262-264
Dec 1968 442.8 B529
Chemical control (insects), Citrus, Insecticides, Mecarbam, Toxoptera citricida.

11524-69
BIOLOGICAL STUDY OF PHORACANTHA SEMIPUNCTATA F. (COLEOPTERA; CERAMBYCIDAE, XY LOPHAGE) SPECIFIC TO THE EUCALYPTUS IN TUNISIA, AND RESEARCH ON THE VITALITY AND ADAPTATION OF ITS (EUCALYPTUS') OILS. (FR)
C Chararas
Paris Acad Agr France Compt Rend Hebd Seances 55(1):47
15 Jan 1969 14 P215BC
Cerambycidae, Eucalyptus, Insect control, Oils, Plant physiology.

11525-69
SHOT-HOLE BORER CONTROL RECOMMENDATIONS--1969.
W Danthanarayana
Ceylon Tea Res Inst Tea Quart 39(4):115-118
Dec 1968 68.18 C33
Chemical control (insects), Chlorinated hydrocarbons, Heptachlor, Insecticide application, Insecticides, Tea, Xyleborus.

11526-69
INVESTIGATION INTO THE ORIENTATION OF THE ALATE SACCHIPHANTES (CHERMES) ABIETIS (L.) IN RELATION TO GALLS AND SHOOTS. (GE)
J P Ewert
Zool Beitr 13(1):1-27 REF
1967 410 Z753
Adelges abietis, Host relationships, Insect behavior, Phototropism, Picea, Plant galls, Statistical analysis.

11527-69
STATUS AND CONTROL OF THE CORN STEM WEEVIL IN THE FLORIDA EVERGLADES.
M J Janes W G Genung
Fla Entomol 52(3):137-140
Sep 1969 420 F662
Carbamates, Carbofuran, Chemical control (insects), Chlorinated hydrocarbons, Corn, DDT, Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate, 3-, Hyperodes humilis, Insecticides, Phosphates.

11528-69
THE CAMPAIGN AGAINST THE CITRUS BLACKFLY. ALEUROCANTHUS WOGLUMI ASHBY. (SP)
E J Jimenez T R Carrillo
Fitofilo 60(21,OCT-DEC):23-28
Dec 1968 421 F55
Aleurocanthus woglumi, Biological control (insects), Citrus, Insect control, Predaceous insects, Sanitation control (insects), Surveys.

11529-69
STUDIES OF THE BYRON BOG IN SOUTHWESTERN ONTARIO XXXV. INSECTS REARED FROM GALLS FROM THE WOODED SLOPES OF THE BOG.
W W Judd
Marcellia 35(1-2,MAR-JUN):77-81 REF
Jun 1968 421 M33
Bogs, Gall-making insects, Insect rearing, Insects, Plant galls, Surveys.

11530-69
ON THE KNOWLEDGE OF THE RELATIONSHIP OF THE COCCINELLIDAE TO PINE GROVES (PINUS SILVESTRIS L.). (GE)
B Klausnitzer
Acta Ent Bohemoslov 64(1):62-68 REF
1967 420 C33
Coccinellidae, Insect behavior, Insect ecology, Insect nutrition, Pinus sylvestris, Population. Czech abstract.

11531-69
EFFECT OF CONE FEEDING BY LEPTOGLOSSUS OCCIDENTALIS ON PONDEROSA PINE SEED DEVELOPMENT.
S L Krugman T W Koerber
Forest Sci 15(1):104-111
Mar 1969 99.8 F7632
Coreidae, Leptoglossus occidentalis, Pine cones, Pinus ponderosa, Seeds.

11532-69
PROFIT BY PEST CONTROL IN CSH-1 AND CSH-2 SORGHUMS.
J P Kulshreshtha S B Rao V S Singh
Indian Farming 18(10):34-35
Jan 1969 22 IN283
Atherigona, Carbaryl, Chemical control (insects), Chilo zonellus, Contarinia sorghicola, Crop yields, Endrin, Hybrids, Noctuidae, Organophosphorus compounds, Phorate, Plant disease resistance, Sorghum, Tetranychidae.

11533-69
A NOTE ON THE INCOMPATIBILITY OF TWO PRE-BLOSSOM APHICIDES (DEMETON-S-METHYL AND DIMETHOATE) WITH LIME-SULPHUR.
J M Lewis R P Tew
East Malling Res Sta Annu Rep (A51):183-184
1968 103 EA7
Aphidiinae, Chemistry, Dimethoate, Fungicides, Hydrolysis, Insecticides, Lime, Methyl demeton, Sulfur.

11534-69
THE IMPORTANCE OF INSECTS FOR THE DISPERSAL OF INFECTIOUS OAK WILT. (GE)
I I Minkevic
Beitr Entomol 17(1-2):299-304 REF
1967 421 B392
Agrilus, Cerambycidae, Fungus diseases (plants), Insect vectors, Larvae, Quercus, Tree injuries, Wilt. English and Russian abstracts.

11535-69
LIST OF INTERCEPTED PLANT PESTS, 1966. (PESTS RECORDED FROM JULY 1, 1965, THROUGH JUNE 30, 1966.).
B C Mumford
U S Agr Res Serv ARS-82 (6-1):82P
Mar 1967 A464.479 R31
Host indexing (plants), Insect pests, Nomenclature, Plant diseases, Plant nematodes, Plant quarantine, Snails, Zoogeography.

11536-69
PREFERENCE STUDIES WITH HOSTS AND NONHOSTS OF THE BOLL WEEVIL, ANTHONOMUS GRANDIS.
W L Parrott F G Maxwell J N Jenkins D D Hardee
Entomol Soc Amer Ann 62(2):261-264 REF
Mar 1969 420 EN82
Anthonomus grandis, Attractants, Food habits, Gossypol, Plant biochemistry, Plant extracts.

11537-69
AMINO ACIDS IN HOSTS AND NONHOSTS OF THE BOLL WEEVIL, ANTHONOMUS GRANDIS.
W L Parrott F G Maxwell J N Jenkins J K Mauldin
Entomol Soc Amer Ann 62(2):255-261 REF
Mar 1969 420 EN82
Amino acids, Anthonomus grandis, Chromatography, Cotton, Plant biochemistry.

11538-69
USE OF AN ACTOGRAPH WITH ELECTRO-ACOUSTICAL DETECTOR FOR THE STUDY OF GRAIN INSECTS. ACTOGRAPHY OF THE LARVAL DEVELOPMENT OF SITOPHILUS GRANARIUS. DETECTION OF THE PRIMARY EFFECTS OF THE IONIZING RADIATIONS. (FR)
P Pesson M Ozer
Ann Epiphyt 19(3):501-512
1968 464.9 F84AN
Electrical engineering, Grain, Insect physiology, Ionizing radiation, Larvae, Sitophilus granarius, Sound waves, Vibration. English abstract.

11539-69
OBSERVATIONS ON THE INSECT PESTS OF THE SUGAR CANE CROP AT KANTALAI (CEYLON).
A Rajendra
Ceylon J Sci Biol Sci 8(1):21-26
Oct 1968 475 C33
Insect pests, Sugarcane.

11540-69
A NOTE ON NEPHUS REGULARIS SIC. (COCCINELLIDAE: COLEOPTERA) AS A PREDATOR OF FERRISIA VIRGATA CKLL.
R R Rawat B N Modi
Madras Agr J 55(12):541-542
Dec 1968 22 M262
Coccinellidae, Insect biology, Insect pests, Predaceous insects, Vegetables.

11541-69
NEW SOUTH WALES DEPARTMENT OF AGRICULTURE, ENTOMOLOGY.
0annual Report 1966-7 (extracts). Branch
Anonymous
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):225-227
Jun 1969 423.92 G798
Agricultural research, Chemical control (insects), Extracts, Insect pests, Insecticides, Surveys.

11542-69
AGRICULTURAL ENTOMOLOGY IN THE USSR.
Ye M Shumako
Entomol Rev 47(2,APR-JUN):153-164 REF
Jun 1968 421 R322AE
Agricultural history, Bibliography, Economic entomology, Insect pests. Russian journal-Entomologicheskoye Obozreniye, p. 261-279.

11543-69
CURRENT STUDIES ON ATHERIGONA INDICA--A PEST OF WHEAT.
S P Singh H R Sahu Z Singh
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):222-224
Jun 1969 423.92 G798
Atherigona, Carbamates, Carbaryl, Chemical control (insects), Chlorinated hydrocarbons, Dimethoate, Disulfoton, Endrin, Insecticides, Lindane, Organophosphorus compounds, Phorate, Seeds, Wheat.

11544-69
EMERGENCE OF THE OVERWINTERING GENERATION OF GALLMIDGES LIVING ON ALFALFA.
M Skuhrava V Skuhravy
Marcellia 35(1-2,MAR-JUN):111-115 REF
Jun 1968 421 M33
Alfalfa, Cecidomyiidae, Contarinia, Dasineura, Emergence, Humidity, Temperature.

11545-69
MICROBIAL CONTROL IN HAWAII.
M Tamashiro
Hawaii Entomol Soc Proc 20(1):157-167 REF
Jun 1968 420 H312
Bacillus thuringiensis, Biological control (insects), Entomogenous fungi, Insect diseases, Microbial insecticides, Protozoa.

11546-69
ACERIA TULIPAE IN NORTH DAKOTA.
R G Timian E H Lloyd
Plant Dis Rep 53(8):623
Aug 1969 1.9 P69P
Aceria tulipae, Insect vectors, Mites, Surveys, Virus diseases (plants), Wheat.

11547-69
OBSERVATIONS ON THE MORPHOLOGY AND THE HISTOCYTOLOGY OF THE VIRESCENT PRODUCTS OF ERIOPHYES CLADOPHTHIRUS NAL. ON SOLANUM DULCAMARA L.. (FR)
E Westphal
Marcellia 35(1-2,MAR-JUN):83-103 REF
Jun 1968 421 M33
Eriophyidae, Gall-making insects, Histochemistry, Mites, Plant physiology, Solanum.

11548-69
CHEMICAL CONTROL OF THE WHITE POTATO GRUB PREMNOTRYPES VORAX (HUSTACHE). (SP)
I Zenner J L Posada O
Agr Trop 25(4):195-204
Apr 1969 26 AG8
Chemical control (insects), Curculionidae, Insect control, Insecticides, Potatoes, Premnotrypes vorax.

11549-69
THE REPELLENCY OF MATURE CITRUS LEAVES TO PROBING APHIDS.
F W Zettler M O Smyly I R Evans
Entomol Soc Amer Ann 62(2):399-402 REF
Mar 1969 420 EN82
Aphis eraccivora, Aphis gossypii, Aphis spiraecola, Beans, Citrus, Crotalaria, Insect behavior, Insect repellents, Myzus persicae.

NEMATODES

11550-69
FLAVIANIC ACID AS A HATCHING AGENT FOR HETERODERA CRUCIFERAE FRANKLIN AND OTHER CYST NEMATODES.
H J Clarke A M Shepherd
Nature 213(5074):419-420 REF
28 Jan 1967 472 N21
Hatching, Heterodera cruciferae, Hydroxy-5,7-dinitro naphthalenesulfonic acid, 8-, Nematodes, Pierie acid.

11551-69
SUSCEPTIBILITY OF TWO CITRUS ROOTSTOCKS TO PRATYLENCHUS SPP.
J Feldmesser C I Hannon
Plant Dis Rep 53(8):603-607 REF
Aug 1969 1.9 P69P
Citrus, Plant disease resistance, Plant nematodes, Pratylenchus, Rootstocks, Surveys.

11552-69
FACTORS INFLUENCING THE RATIO OF MALES TO FEMALES IN THE GENUS HETERODERA. II. MINIMUM LIVING SPACE--SELECTIVE RATE OF MORTALITY OF SEXES--SEX RATIO (HETERODERA SCHACHTII). (GE)
U Kerstan
Nematologica 15(2):210-228 REF
May 1969 436.8 N342
Ecology, Habitats, Heterodera schachtii, Mortality, Plant nematodes, Population, Sex. English abstract.

11553-69
ANALYSIS OF TOTAL LIPIDS AND FATTY ACIDS OF PLANT-PARASITIC NEMATODES AND HOST TISSUES.
L R Krusberg
Compar Biochem Physiol 21(1):83-90 REF
Apr 1967 444.8 C73
Alfalfa, Aphelenchoides ritzema-bosi, Chromatography, Ditylenchus dipsaci, Ditylenchus triformis, Fatty acids, Lipids, Plant nematodes, Plants, Pratylenchus penetrans, Pyrenochaeta terrestris, Tylenchorhynchus claytoni.

11554-69
PLANT PARASITIC NEMATODES ASSOCIATED WITH SUGARCANE PRODUCTION IN RHODESIA.
G C Martin
China Plant Protect Bull 15(3):45-58
Jun 1967 464.9 C47
Meloidogyne javanica, Plant nematodes, Soil fumigation, Sugarcane, Surveys.

11555-69
INFLUENCE OF GROWING MARIGOLDS, WEEDS, TWO COVER CROPS AND FUMIGATION ON SUBSEQUENT POPULATIONS OF PARASITIC NEMATODES AND PLANT GROWTH.
P M Miller J F Ahrens
Plant Dis Rep 53(8):642-646 REF
Aug 1969 1.9 P69P
Cover crops, Ethylene dibromide, Fumigation, Plant nematodes, Plant physiology, Population, Pratylenchus penetrans, Tylenchorhynchus claytoni, Weeds.

11556-69
CHRYSANTHEMUM EELWORM.
Great Brit Min Agr Fish Food Adv Leafl (339):1-7
May 1966 10 G79LA
Aphelenchoides ritzema-bosi, Chemical control (nematodes), Chrysanthemum, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Hot water treatment (plants), Parathion, Plant nematode resistance, Plant nematodes, Thionazin.

The life cycle, and control of the chrysanthemum eelworm (Aphelenchoides ritzema-bosi) are discussed including a description of infested plants. Hot water treatment and applications of thionazin and parathion are the recommended control measures.

11557-69
PROPIONIC ACID BETTER THAN ACETIC ACID FOR KILLING NEMATODES.
C Netscher J W Seinhorst
Nematologica 15(2):286
May 1969 436.8 N342
Acetic acid, Chemical control (nematodes), Nematodes, Propionic acid.

11558-69
STYLET-BEARING NEMATODES ASSOCIATED WITH PLANTS IN IOWA PRAIRIES.
D C Norton P E Ponchillia
Iowa Acad Sci Proc 75:32-35 MAP
1968 500 IO93
Morphology, Mouth parts, Plant nematodes, Surveys, Zoogeography.

11559-69
EFFECT OF ROOT EXTRACT OF ASPARAGUS RACEMOSUS TAGETES ERECTA ON HATCHING OF EGGS OF MELOIDOGYNE JAVANICA MELOIDOGYNE ARENARIA.
G Swarup R D Sharma
Indian J Exp Biol 5(1):59
Jan 1967 442.8 IN2
Asparagus, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Hatching, Meloidogyne ardenensis, Meloidogyne javanica, Nematocides, Plant extracts, Plant nematodes, Tagetes erecta.

11560-69
STUBBY ROOTS OF COFFEE SEEDLINGS CAUSED BY ROTYLENCHULUS RENIFORMIS.
R B Valdez
Philippine Agr 51(8):36-43
Jan 1968 25 P542
Chemical control (nematodes), Coffee, Dichloropropane dichloropropene mixture, Plant nematodes, Roots, Rotylenchulus reniformis.

11561-69
INVESTIGATIONS OF NEMATODE-DESTROYING FUNGI IN CENTRAL IOWA.
G D Van Dyke
Iowa Acad Sci Proc 75:20-32
1968 500 IO93
Ecology, Nematodes, Plant physiology, Predaceous fungi, Soil fungi, Surveys.

WEEDS

11562-69
SOME ASPECTS OF UTILIZATION OF WATER HYACINTH (EICHHORNIA CRASSIPES).
A A Abdalla A T A Hafeez
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):204-207
Jun 1969 423.92 G798
Cyperus rotundus, Eichhornia crassipes, Mulches, Plant analysis, Soil moisture, Weed control.

11563-69
NURSERY INVESTIGATIONS: WEED CONTROL.
J R Aldhous J Atterson A J Low R M Brown
Great Brit Forest Comm Rep Forest Res 28-36
1968 99.9 G795RE
Chemical control (weeds), Coniferae, Methylsulfonyl)-2,6-dinitro-N,N-dipropylaniline, 4-(, Nursery stock (forestry), Propazine, Seedlings, Simazine.

Partial contents, p. 34-35

11564-69
WEED CONTROL IN THE FOREST.
J R Aldhous R M Brown J Atterson
Great Brit Forest Comm Rep Forest Res 75-82
1968 99.9 G795RE
Chemical control (weeds), Dicamba, Forest management, Herbicide application, Herbicides, Oils, Paraffins, Pteridium aquilinum, Rhododendron, T, 2,4,5-, Weed control, Weeds.

11565-69
NURSERY INVESTIGATIONS. WEED CONTROL.
J R Aldhous J Atterson A J Low R M Brown
Great Brit Forest Comm Rep Forest Res 28-36
1968 99.9 G795RE
Chemical control (weeds), Chlorthiamid, Dicamba, Forests, Larix, Paraquat, Pinus, Pteridium aquilinum, Rhododendron, T, 2,4,5-, Triazine.

Partial contents, p. 33-34

11566-69
THE EFFECT OF POST-EMERGENCE HERBICIDES ON THE VEGETATIVE AND REPRODUCTIVE GROWTH OF CENTROSEMA PUBESCENS BENTH. IN QUEENSLAND.
D R Bailey
Weed Res 9(1):9-19
Mar 1969 79.8 W412
Chemical control (weeds), Herbicides, Leguminosae, Plant physiology.

11567-69
THE PRESENT STATUS OF BIOLOGICAL CONTROL OF XANTHIUM (COMPOSITAE).
G M Baloch M A Gani
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):154-159 REF
Jun 1969 423.92 G798
Biological control (weeds), Cerambycidae, Coptosoma, Noctuidae, Pyralidae, Weed control, Xanthium.

11568-69
A METHOD FOR DETERMINATION OF 2,4-DICHLOROPHENOXYACETIC ACID (2,4-D) IN ALGAL CULTURE MEDIA. (GE)
E Behm I Schroder
Weed Res 9(1):43-47 REF
Mar 1969 79.8 W412
Algae, Chemical analysis, Culture media, D, 2,4-, Herbicides, Spectrophotometry.

11569-69
INFLUENCE OF MAIZE DWARF MOSAIC VIRUS AND TRACE LEVELS OF ATRAZINE ON WEIGIIT AND FOLIAR ELEMENT ACCUMULATION BY TWO SINGLE CROSS MAIZE HYBRIDS IN THE GREENHOUSE.
H Colc D R MacKenzie C B Smith C D Ercegovich
Plant Dis Rep 53(8):652-655
Aug 1969 1.9 P69P
Atrazine, Chlorinated hydrocarbons, Corn, Dwarf mosaic, Herbicides, Hybrids, Plant biochemistry, Plant discases, Virus diseases (plants).

11570-69
2-CHLORO-2',6'-DIETHYL-N-(METHOXYMETHYL)-ACETANILIDE.
D M Evans
Chem Indus (19):615-616
10 May 1969 382 M31C
Chemical control (weeds), Chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide, 2-, Field crops, Herbicides, Preemergence, Temperature.

11571-69
WEED CONTROL IN CRUCIFER CULTURES WITH 2-CHLOR-N-ISOPROPYLACETANILIDE. (GE)
H Geinhauer H Will
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):269-276
Feb 1967 410.9 G31M
Cauliflower, Chemical control (weeds), Chloro-N-isopropylacetanilide,2-, Cruciferae, Herbicides, Kohlrabi, Onions, Weed control. English abstract

11572-69
THE RESPONSE OF POTTED APPLE AND PLUM PLANTS TO BROMACIL AND CHLORTHIAMID.
R I C Halloway
East Malling Res Sta Annu Rep (A51):89-91
1968 103 EA7
Apples, Bromacil, Dichlorothiobenzamide, 2,6-, Herbicides, Plums, Roots.

11573-69
CRITICAL PERIODS FOR WEED COMPETITION.
L Kasasian J Seeyave
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):208-212
Jun 1969 423.92 G798
Competition, Cultural control (weeds), Plant physiology, Vegetables, Weed control.

11574-69
THE PRESENT STAGE OF WEED CHEMICAL CONTROL IN RICE FIELDS. (RUM)
A Melachrinos
Probl Agr 11(5):41-50 REF
1969 21 R862
Algae, Chemical control (weeds), Herbicides, Propanil, Rice, T, 2,4,5-, Weed control.

11575-69
COMPOSITION OF WEED FLORA IN SPRING CEREALS IN FINLAND.
J Mukula M Raatikainen R Lallukka T Raatikainen
Ann Agr Fenn 8(2):59-109 MAP REF
1969 20 AN7
Grain, Plant ecology, Plant geography, Surveys, Weeds.

11576-69
A PRELIMINARY EVALUATION OF COTTON HERBICIDES FOR PEASANT FARMING IN NORTHERN NIGERIA.
J Ogborn
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):194-199
Jun 1969 423.92 G798
Chemical control (weeds), Cotton, Crop yields, Dimethyl-3-(alpha,alpha,alpha-trifluoro-m-tolyl)urea, 1,1-, Herbicides, Trifluralin, Weed control.

11577-69
WEEDS IN THE DISTRICT OF TIRANA. (AL)
X Qosja
Tirana Inst Larte Shteteror Bujqesise Bul Shken Bujq 22(2):63-79
1968 512 T51
Crops, Grain, Grasses, Plant ecology, Plant geography, Weeds. French summary.

11578-69
EFFECT OF CHEMICAL AND CULTURAL METHODS OF WEED CONTROL ON THE YIELD AND GROWTH OF MAIZE.
R K S Raghuwanshi K P Garg
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):200-203 REF
Jun 1969 423.92 G798
Chemical control (weeds), Corn, Cultural control (weeds), D, 2,4-, Plant physiology, Weed control.

11579-69
STUDY OF THE INTRODUCTION OF C. C. C. INTO CEREAL PRODUCTION TECHNIQUES. FIRST PART: WINTER WHEAT. (FR)
L Rixhon A Crohain
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):516-561 REF
1968 105.1 G285
Chemical control (weeds), Chloroethyl)trimethylammonium chloride, (2-, Climate, Crop yields, Herbicides, Plant physiology, Weed control, Wheat.

11580-69
EFFECTS OF DESICCATION AND TEMPERATURE ON SURVIVAL OF CYPERUS ESCULENTUS TUBERS AND CYNODON DACTYLON RHIZOMES.
P E L Thomas
Weed Res 9(1):1
Mar 1969 79.8 W412
Cultural control (weeds), Cynodon dactylon, Cyperus esculentus, Drying, Longevity, Temperature.

11581-69
THE EFFECTS OF SHOOT REMOVAL ON THE RHIZOME CARBOHYDRATE RESERVES OF COUCH GRASS (AGROPYRON REPENS (L.) BEAUV.),
D J Turner
Weed Res 9(1):27-36 REF
Mar 1969 79.8 W412
Agropyron repens, Carbohydrates, Defoliation, Herbicides, Paraquat, Plant metabolism, Plant physiology, Rhizomes.

11582-69
THE USE OF DIURON FOR WEED CONTROL IN MATURE LOW-GROWN TEA.
D T Wettasinghe
Ceylon Tea Res Inst Tea Quart 39(4):119-120
Dec 1968 68.18 C33
Chemical control (weeds), Diuron, Herbicides, Paraquat, Tea, Weed control.

OTHER PESTS

11583-69
MAMMALS AND BIRDS.
J J Rowe
Great Brit Forest Comm Rep Forest Res 116-117
1968 99.9 G795RE
Chemical control (pests), Deer, Fertilizers, Forests, Pest control, Squirrels, Starlings, Traps.

LIVESTOCK PROTECTION

11584-69
NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE RUELENE.
J K Kirk
Fed Regist 34(104,PT 1):8373-8374
30 May 1969 L1.451
Cattle, Food additives, Grubs, Insect control, Parasitism, Regulations, Ruelene.

DISEASES

11585-69
SOME OBSERVATIONS ON THE PRESENT STATUS OF RABIES IN THE AMERICAS. (SP)
N P Acha
Ofic Sanit Panamer Bol 66(3):211-218
Mar 1969 449.9 P192B
Animal vectors, Disease transmission, Dogs, Human diseases, Rabies, Virus diseases (animals). English, Portuguese and French summaries.

11586-69
FURTHER STUDIES ON RESPIRATORY INFECTIONS OF POULTRY IN EGYPT.
A A S Ahmed M S Saber M A Elsisi M Reda K H Abbasi
J Vet Sci U A R 5(1):85-104 REF
1968 SF604.J6
Antibodies, Mycoplasma gallisepticum, Poultry, Respiratory diseases, Serological tests, Surveys, Virus diseases (animals).

11587-69
REPLICATION AND CYTOPATHOGENICITY OF AVIAN INFECTIOUS BRONCHITIS VIRUS IN CHICKEN EMBRYO KIDNEY CELLS.
T G Akers C H Cunningham
Arch Gesamte Virusforsch 25(1):30-37 REF
Nov 1968 448.3 AR23
Chick embryos, Cytopathogenic viruses, Fluorescence microscopy, Infectious bronchitis, Reproduction, Virus diseases (animals).

11588-69
LABORATORY TECHNIQUES IN BRUCELLOSIS.
G G Alton L M Jones
World Health Organ Monogr Ser (55):92P REF
1967 QR201.B8A4
Allergies, Bacteriology, Brucellosis, Livestock diseases, Methodology, Serological tests, Vaccines, Veterinary medicine.

11589-69
OCCURRENCE OF ENCEPHALITIS CAUSED BY INFECTIOUS BOVINE RHINOTRACHEITIS VIRUS IN CALVES IN HUNGARY.
A Bartha G Hajdu P Aldasy Gy Paczolay
Acta Vet (budapest) 19(2):145-151
1969 41.8 AC83
Animal histology, Calves, Encephalitis, Infectious bovine rhinotracheitis virus, Vaccines, Virus diseases (animals).

11590-69
CONTROL OF EQUINE PIROPLASMOSIS IN FLORIDA.
J E Bryant J B Anderson K H Willers
Amer Vet Med Ass J 154(9):1034-1036
01 May 1969 41.8 AM3
Babesia caballi, Chemical control (insects), Chlorinated hydrocarbons, Dermacentor nitens, Drug therapy, Horses, Insect vectors, Insecticides, Lindane, Livestock diseases, Piroplasmosis, Toxaphene.

Equine piroplasmosis was brought under control by application of pesticides to eliminate the tick vector (Dermacentor nitens) and by the administration of babesiacidal drugs to known serologically positive horses in Florida.

11591-69
CHARACTERIZATION OF AVIAN ENCEPHALOMYELITIS VIRUS (AN AVIAN ENTEROVIRUS).
W K Butterfield R E Luginbuhl C F Helmboldt
Avian Dis 13(2):363-378 REF
May 1969 41.8 AV5
Avian encephalomyelitis, Biochemistry, Picornaviruses, Serological tests, Virus diseases (animals), Virus-neutralization tests.

11592-69
PASTEURELLOSIS: PASTEURELLA MULTOCIDA AND PASTEURELLA HEMOLYTICA.
G R Carter
Advances Vet Sci 11:321-379 REF
1967 41.8 AD9
Bacterial diseases (animals), Bibliography, Epidemiology, Immunity, Morphology, Pasteurella haemolytica, Pasteurella multocida, Pasteurellosis, Serological tests, Taxonomy, Tissue culture, Zoogeography.

A literature review of the taxonomy, distribution, morphology, biochemistry, pathology, serology and immunology of Pasteurella multocida and P. hemolytica is presented. An extensive bibliography is also included.

11593-69
OCCURRENCE OF INFLUENZA A/EQUI-2 INFECTION OF HORSES IN HUNGARY.
L Csontos T Fehervari J Bokori S Goyne A Bartha Et Al
Acta Vet (budapest) 19(2):183-189 MAP REF
1969 41.8 AC83

Horses, Influenza viruses, Myxoviruses, Virus diseases (animals).

11594-69
THE REACTIVITY OF THE WHITE BLOOD PICTURE IN THE HORSE. (GE
H Eikmeier D Manz
Deut Tierarztl Wochensch 75(13):323-327 REF
01 Jul 1968 41.8 D482
Animal diseases, Blood composition, Horses, Leukocytes, Leukocytosis, Leukopenia, Lymphocytosis, Skin diseases. English summary.

11595-69
A SURVEY ON AVIAN SALMONELLOSIS IN U. A. R..
M A El Agroudi I M Sadek
J Vet Sci U A R 5(1):11-17 REF
1968 SF604.J6
Birds, Salmonellosis, Surveys.

11596-69
AUGMENTATION OF THE PATHOGENICITY OF THE RIBONUCLEIC ACID OF FOOT-AND-MOUTH VIRUS BY ADDITION OF DIETHYLAMINOETHYL-DEXTRAN. (FR)
M-T Fayet
Acad Sci Compt Rend Ser D Sci Nat 264(5, 1ST SEMESTER):783-784
30 Jan 1967 505 P21
Diethylaminoethyl dextran, Foot-and-mouth disease virus, Reproduction, Ribonucleic acid, Tissue culture, Viruses.

11597-69
STUDIES ON WILD RESERVOIRS AND VECTORS OF TRYPANOSOMA CRUZI . XXXIV: NATURAL INFECTION OF THE RAT, ORYZOMYS CAPITO LATICEPS (LUND, 1841).BY T. CRUZI . (POR)
G K Funayama M P Barretto
Rev Brasil Biol 29(2):163-173 REF
Jun 1969 442.8 R326
Animal diseases, Animal vectors, Disease transmission, Rats, Trypanosoma cruzi. English abstract.

11598-69
THE MORPHOLOGICAL AND BIOLOGICAL STATUS OF TWO ENTERIC PROTOZOA INVESTIGATED IN DOMESTIC DUCKS AND GEESE IN EGYPT.
M H Haiba M N El-Shabrawy
J Vet Sci U A R 5(1):19-28 REF
1968 SF604.J6
Amebiasis, Amoeba, Biology, Ducks, Geese, Morphology, Protozoa, Trichomonas.

11599-69
DEGRADATION OF CELLULAR RIBONUCLEIC ACID IN NEWCASTLE DISEASE VIRUS INFECTED CELLS.
W Huo D E Wilson
J Gen Virol 4(2):245-251 REF
Mar 1969 QR360.A1J6
Chick embryos, Deoxyribonucleic acid, Newcastle disease virus, Proteinases, Ribonucleic acid, Virology.

11600-69
BOVINE EPIZOOTIC FEVER. III. LOSS OF VIRUS PATHOGENEICITY AND IMMUNOGENICITY FOR THE CALF DURING SERIAL PASSAGE IN VARIOUS HOST SYSTEMS.
Y Inaba Y Tanaka K Sato H Ito T Omori Et Al
Jap J Microbiol 13(2):181-186
Jun 1969 448.8 J273
Antibodies, Calves, Ephemeral fever, Hamsters, Immunity, Mice, Virus diseases (animals).

11601-69
RABIESVIRUS NEURONITIS.
A B Jenson E R Rabin D C Bentinck J L Melnick
J Virology 3(2):265-269
Feb 1969 QR360.J6
Electron microscopy, Mice, Nervous system diseases, Rabies virus.

11602-69
ATTEMPTS TO INDUCE RECOMBINANT SOMATIC CELLS IN CHICKEN ERYTHROCYTE CHIMAERAS BY REPEATED INJECTION OF WESTERN EQUINE ENCEPHALOMYELITIS VIRUS.
M Gresikova K Hala M Hasek I Karakoz
Folia Biol (praha) 15(2):81-86 REF
1969 442.8 F712
Animal genetics, Chickens, Chimeras, Erythrocytes, Serological tests, Western equine encephalomyelitis.

11603-69
RESULTS OF RESEARCH ON THE ETIOLOGY OF HEPATIC NECROSIS IN SHEEP. (FR)
R V Katitch B Djoukitch V Dimitrijevitch Z Voukitchevitch Lj Cvetkovitch Et Al
Rec Med Vet 145(6):543-556 REF
Jun 1969 41.8 R24
Bacteriology, Clostridium, Hepatic necrosis, Livestock diseases, Sheep. English and Spanish abstracts.

11604-69
TOXICITY AND ANTIGENICITY OF SHIPPING FEVER VACCINES IN CALVES.
K A Larson K R Schell
Amer Vet Med Ass J 155(3):495-499 REF
01 Aug 1969 41.8 AM3
Antigens, Calves, Pasteurella bacterins, Toxicology, Viral vaccines.

11605-69
ANTIFUNGAL EFFECTS OF PEROXIDASE SYSTEMS.
R I Lehrer
J Bacteriol 99(2):361-365 REF
Aug 1969 448.3 J82
Aspergillus fumigatus, Aspergillus niger, Biochemistry, Candida, Fungicides, Geotrichum, Peroxidases, Rhodotorula, Saccharomyces.

11606-69
ELECTRON MICROSCOPY OF THE LYSIS OF SALMONELLA BY BDELLOVIBRIO BACTERIOVIRUS. (FR)
P Lepine A Guelin J Sisman D Lamblin
Acad Sci Compt Rend Ser D Sci Nat 264(25, 1ST SEMESTER):2957-2960
19 Jun 1967 505 P21
Bacteriophages, Bdellovibrios, Electron microscopy, Lysis, Salmonella.

11607-69
OCCURRENCE OF STAPHYLOCOCCI IN CASES OF BOVINE MASTITIS.
V Matejovska M Bastar
J Hyg Epidemiol Microbiol Immunol 13(1):90-96
1969 448.8 J826
Antibiotics, Cattle, Human diseases, Infectious diseases, Mastitis, Staphylococcus, Surveys.

11608-69
AMPROL FOR THE PREVENTION OF COCCIDIOSIS IN GROWING TURKEYS.
28P
1961 SF995.M4
Amprolium, Coccidiosis, Coccidiostats, Feed additives, Infectious diseases, Poultry diseases, Tolerances, Turkeys.

11609-69
NATURAL STREPTOBACILLUS MONILIFORMIS INFECTION OF TURKEYS, AND ATTEMPTS TO INFECT TURKEYS, SHEEPS, AND PIGS.
Y S Mohamed P D Moorehead E H Bohl
Avian Dis 13(2):379-385
May 1969 41.8 AV5
Animal disease transmission, Sheep, Streptobacillus moniliformis, Swine, Turkeys.

11610-69
DISEASES OF ANIMALS.
Toxicity Bibliogr 2(1,JAN-MAR):S-1-S-2
1969 Z7890.T6
Animal diseases, Bibliography, Cattle, Dogs, Horses, Poultry, Rodents, Sheep, Swine, Toxicology.

11611-69
A COMPARISON OF THE TUBE AGGLUTINATION, SUPPLEMENTAL, AND BRUCELLOSIS RING TESTS IN SELECTED DAIRY HERDS IN NEW YORK.
P Nicoletti G E Burch
Cornell Vet 59(3):349-354
Jul 1969 41.8 C81
Brucellosis, Cattle, Diagnosis, Methodology, Serological tests.

11612-69
HEAT STABILITY AND KINETICS OF HEAT INACTIVATION OF NON-SPECEFIC SPECIFIC BRUCELLA AGGLUTININS IN CATTLE BUFFALO SERUM.
R C Pathak C M Singh
Indian J Exp Biol 7(2):105-107 REF
Apr 1969 442.8 IN2
Agglutination test, Antibodies, Brucella, Buffaloes, Cattle, Serodiagnosis, Serum, Temperature.

11613-69
THE ADAPTATION OF A STRAIN OF CANINE DISTEMPER VIRUS TO CHICK EMBRYONIC CELLS AND THE UTILIZATION OF ITS CYTOPATHOGENIC EFFECT IN SERONEUTRALISATION. (FR)
H G Petermann
Rec Med Vet 145(6):563-574
Jun 1969 41.8 R24
Canine distemper virus, Serodiagnosis, Serum neutralization test, Tissue culture, Virus diseases (animals). English and Spanish abstracts.

11614-69
AN ATTEMPT AT AN OBJECTIVE EVALUATION OF THE OXIDASE REACTION IN LEPTOSPIRA CULTURES.
I Plesko M Vladar
Biologia (bratislava) 22(2):90-95
1967 442.8 B5265
Leptospira, Oxidases, Taxonomy, Tissue culture.

11615-69
THE PENICILLIN PEARL TEST IN THE DIFFERENTIAL DIAGNOSIS OF BACILLUS ANTHRACIS AND BACILLUS CEREUS. (CZ)
K Prokupek
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 14(2):103-112 REF
Feb 1969 41.9 C333
Bacillus anthracis, Bacillus cereus, Diagnosis, Penicillin. Russian, English and German abstracts.

11616-69
BOVINE MASTITIS DUE TO PSEUDOMONAS PYOCYANEA.
R Raghavan R D Nanjiah R F Patil A S Upadhye
Mysore J Agr Sci 2(3):214-218
1968 S19.M9
Cattle, Livestock diseases, Mastitis, Microorganisms, Pseudomonas aeruginosa.

11617-69
USE OF THE NUCLEIC ACID HYBRIDIZATION METHOD FOR THE DEMONSTRATION OF DNA HOMOLOGOUS TO ROUS VIRUS RNA IN RSV-TRANSFORMED MAMMALIAN CELLS.
T Rakusanova
Folia Biol (praha) 15(2):96-103 REF
1969 442.8 F712
Biochemistry, Chickens, Deoxyribonucleic acid, Ribonucleic acid, Rous sarcoma virus, Tissue culture.

11618-69
PRODUCTION OF ACID MUCOPOLYSACCHARIDES IN MAMMALIAN FIBROBLAST TISSUE CULTURES TRANSFORMED BY ROUS SARCOMA VIRUS.
T Rakusanova
Folia Biol (praha) 15(2):87-95 REF
1969 442.8 F712

Biochemistry, Polysaccharides, Rats, Rous sarcoma virus, Tissue culture.

11619-69
THE USE OF THE HEMOLYTIC ACTIVITY OF NEWCASTLE DISEASE VIRUS AS A MEANS OF STRAIN TYPING.
I M Reda A A S Ahmed M S Saber H El-Gendi
J Vet Sci U A R 5(2):159-164
1968 SF604 J6
Chickens, Electrolysis, Hemolysis, Methodology, Newcastle disease virus, Potassium, Serological tests.

11620-69
AMYLOPECTIN, THE STORAGE POLYSACCHARIDE OF THE COCCIDIA EIMERIA BRUNETTI AND E. TENELLA.
J F Ryley M Bentley D J Manners J R Stark
J Parasitol 55(4):837-845 REF
Aug 1969 448.8 J824
Amylopectins, Biochemistry, Chemical analysis, Eimeria brunetti, Eimeria tenella, Polysaccharides, Sporozoites.

11621-69
DIAGNOSIS, INCIDENCE AND TREATMENT OF SUB-CLINICAL MASTITIS IN DAIRY BUFFALOES.
A H Said A S Abd-el-Malek
J Vet Sci U A R 5(2):171-181REF
1968 SF604.J6
Antibiotics, Bacteriology, Bovine mastitis, Buffaloes, Diagnosis, Milk analysis.

11622-69
VIRUS LOCALIZATION IN RABIES. (GE)
J Schaaf E Schaal
Dent Tierarztl Wochensch 75(13):315-316,319-323 REF
01 Jul 1968 41.8 D482
Antigens, Diagnosis, Fluorescent antibody technic, Inclusion bodies, Rabies virus, Virology, Virus diseases (animals). English summary.

11623-69
INVESTIGATIONS ON THE INCIDENCE OF MYCOPLASMA IN SWINE AND THEIR SIGNIFICANCE IN ENZOOTIC PNEUMONIA AND ATROPHIC RHINITIS.
M Scheer J Hartwich J v Sandersleben
Acta Vet (budapest) 19(2):125-130 REF
1969 41.8 AC83
Animal morphology, Atrophic rhinitis, Enzootic pneumonia, Mycoplasma, Swine.

11624-69
BIOSYNTHESIS OF GLUCOSYL DIGLYCERIDES BY MYCOPLASMA LAIDLAWII STRAIN B.
P F Smith
J Bacteriol 99(2):480-486 REF
Aug 1969 448.3 J82
Bacteriology, Biochemistry, Glycerides, Mycoplasma, Synthesis.

11625-69
INH CHEMOPROPHYLAXIS IN CALVES IN THE PROCESS OF THE ERADICATION OF BOVINE TUBERCULOSIS UNDER THE CONDITIONS OF LARGE-SCALE PRODUCTION. (CZ)
J Straka
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(10):545-549 REF
Oct 1968 41.9 C333
Calves, Drug therapy, Isoniazid, Livestock diseases, Tuberculosis. English, Russian and German abstracts.

11626-69
BOVINE EPIZOOTIC FEVER. II. PHYSICOCHEMICAL PROPERTIES OF THE VIRUS.
Y Tanaka Y Inaba K Sato H Ito T Omori Et Al
Jap J Microbiol 13(2):169-176
Jun 1969 448.8 J273
Biochemistry, Cattle, Ephemeral fever, Virology, Virus diseases (animals).

11627-69
PROPERTIES OF THE ATTENUATED VACCINE STRAIN OF DUCK HEPATITIS.
N M Tauraso G F Coghill M J Klutch
Avian Dis 13(2):321-329 REF
May 1969 41.8 AV5
Biochemistry, Ducks, Hepatitis, Picornaviruses, Serological tests, Vaccines.

11628-69
THE SECRETION IN VITRO OF HYALURONIC ACID AND COLLAGEN BY EMBRYONIC HUMAN CELLS TRANSFORMED IN CULTURE BY ROUS SARCOMA VIRUS. (FR)
V Van Tuyen R Maunoury H Febvre
Acad Sci Compt Rend Ser D Sci Nat 265(18, 2ND SEMESTER):1345-1348 REF
30 Oct 1967 505 P21
Collagen, Humans, Rous sarcoma virus, Secretion, Tissue culture.

11629-69
STUDY OF GASTRIC FUNCTION IN SWINE WITH GASTROENTERITIS.
J Varga L Pesti
Acta Vet (budapest) 19(2):113-118 REF
1969 41.8 AC83
Animal physiology, Gastroenteritis, Gastrointestinal system, Hydrogen-ion concentration, Pepsin, Swine.

11630-69
PURIFICATION OF EIMERIA TENELLA SPOROZOITES WITH GLASS BEAD COLUMNS.
G E Wagenbach
J Parasitol 55(4):833-838
Aug 1969 448.8 J824
Culture media, Eimeria tenella, Methodology, Purification, Sporozoites.

11631-69
EFFECT OF TEMPERATURE ON SURVIVAL OF AIRBORNE MYCOPLASMA PNEUMONIAE.
D W Wright G D Bailey L J Goldberg
J Bacteriol 99(2):491-495 REF
Aug 1969 448.3 J82
Humidity, Longevity, Mycoplasma pneumoniae, Temperature.

11632-69
A PRELIMINARY STUDY OF THE PIGMENT OF CORYNEBACTERIUM OVIS.
M M Zaki
J Vet Sci U A R 5(2):165-170 REF
1968 SF604.J6
Biochemistry, Corynebacterium, Diagnosis, Livestock diseases, Pigments, Serological tests.

11633-69
PRESENCE OF HUMAN ENTEROPATHOGENIC STRAINS OF ESCHERICHIA COLI IN DAIRY ANIMALS IN UPPER EGYPT.
M M Zaki S M Nashed
J Vet Sci U A R 5(1):105-110 REF
1968 SF604.J6
Animal disease transmission, Cattle, Escherichia coli, Human diseases, Surveys.

ARTHROPODS

11634-69
THE CONTROL OF TSETSE AND TRYPANOSOMIASIS IN THE NORTH-EASTERN DISTRICTS OF RHODESIA.
T J Caswell
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):219-221
Jun 1969 423.92 G798
Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Glossina morsitans, Insecticides, Trypanosoma congolense.

11635-69
ON A SPECIES OF LIPOPTENA (DIPTERA, HIPPOBOSCIDAE, MELOPHAGINAE) FROM INDIAN SPOTTED DEER AND HOG DEER.
M B Chhabra S Chander
Indian Vet J 46(1):38-41
Jan 1969 41.8 IN2
Deer, Hippoboscidae, Insect identification, Insect morphology, Lipoptena, Parasitism.

11636-69
THE EFFECT OF TRICHLORPHONE (SOLDEP, HYPODERMIN) ON SOME ECTOPARASITES OR MYCOSES IN CATTLE AND SHEEP. (CZ)
T Goovin J Sokol R Cabadaj
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 13(11-12,NOV-DEC):643-648 REF
Dec 1968 41.9 C333
Acarus siro, Cattle, Chemical control (insects), Insect control, Melophagus ovinus, Mycosis, Scab, Sheep, Sheep-dip, Trichlorfon. Russian, English and German abstracts.

11637-69
ORAL FAMPHUR FOR TREATMENT OF CATTLE LICE, AND AGAINST SCABIES MITES AND EAR TICKS OF CATTLE AND SHEEP.
I H Roberts W P Meleney S A Apodaca
Amer Vet Med Ass J 155(3):504-509 REF
01 Aug 1969 41.8 AM3
Cattle, Ears, Famphur, Haematopinus eurysternus, Insect control, Otobius megnini, Psoroptes ovis, Sheep.

11638-69
TICKS (IXODOIDEA) OF DOMESTIC ANIMALS IN IRAQ. PART 5. INFESTATIONS IN THE LIWAS OF DIWANIYA AND NASIRIYA (SPRING), KARBALA (WINTER), AND HILLA (AUTUMN AND WINTER).
J Robson J M Robb N J Hawa
J Med Entomol 6(2):120-124 MAP
May 1969 421 J828
Ixodoidea, Livestock, Surveys.

Collections in spring from 316 animals yielded 1,591 ticks; in winter from 449 animals, 3,966 ticks; and in autumn from 186 animals, 3,397 ticks. Their identification and incidence are given. Discussion includes a comparison with summer infestations. Meteorological data are given.

11639-69
TICKS (IXODOIDEA) OF DOMESTIC ANIMALS IN IRAQ. PART 6. DISTRIBUTION.
J Robson J M Robb N J Hawa T Al-Wahayyib
J Med Entomol 6(2):125-127 MAP
May 1969 421 J828
Ixodoidea, Livestock, Zoogeography.

Over a period of 2 years 103,965 ticks were collected from domestic animals. H. anatolicum subspp., H. m. turanicum, R. sanguineus group and B. annulatus occurred throughout Iraq. H. a. asiaticum, H. (h.) parvae, h. (H.) sulata, O. lahorensis and R. bursa were restricted to the northern areas, while H. detritum was confined to the central and southern parts. H. dromedarii, H. schulzei, H. m. marginatum and A. lepidum were also recovered.

11640-69
RESIDUAL INSECTICIDES FOR USE AGAINST TSETSE FLIES IN RHODESIA.
G Vale
Pans (pest Articles News Sum) Sect A Insect Contr 15(2):213-218
Jun 1969 423.92 G798
Chemical control (insects), Chlorinated hydrocarbons, Dieldrin, DDT, Glossina morsitans, Glossina pallidipes, Insecticide residues.

PARASITES

11641-69
OXYURATA OF THE CENTRAL ELEVATED PLAIN ON THE GENUS STRONGYLURIS MUELLER, 1894 WITH DESCRIPTION OF TWO NEW SPECIES. (POR)
C J R Alho
Rev Brasil Biol 29(1):65-74 REF
Apr 1969 442.8 R326
Oxyuriasis, Taxonomy. French abstract.

11642-69
EARLY DEVELOPMENT OF TAENIA CRASSICEPS IN THE INTERMEDIATE HOST,WITH A NOTE ON PRIMITIVE CELL TYPES.
F M Bilquees
Australian J Zool 17(3):487-493 REF
Jul 1969 410 AU73
Cytology, Development, Mammals, Taenia, Tissue culture.

11643-69
PARASITIC REPORTS OF FOREIGNERS FROM WARM CLIMATES. (GE)
L Britz W Krause
Angew Parasitol 9(4):225-237 REF
Dec 1968 436.8 AN4
Epidemiology, Helminthiasis, Human diseases, Protozoa, Surveys, Zoogeography. English and Russian abstracts

11644-69
THE OXIDASE SYSTEMS OF MONIEZIA EXPANSA (CESTODA).
K S Cheah
Compar Biochem Physiol 23(1):277-300 REF
Oct 1967 444.8 C73
Cytochrome oxidase, Metabolism, Moniezia expansa, Physiology.

11645-69
MORPHOGENESIS AND MIGRATION OF ASCARIS SUUM LARVAE DEVELOPING TO FOURTH STAGE IN SWINE.
F W Douvres F G Tromba G M Malakatis
J Parasitol 55(4):689-712 REF
Aug 1969 448.8 J824
Ascaris lumbricoides suum, Biology, Larvae, Locomotion, Morphology, Swine.

11646-69
TRIBROMOPHENOXYBUTYRIC ACID AS AN ANTHELMINTIC AGAINST POULTRY TAPEWORMS. (GE)
G Grafner P Betke H D Grauhmann
Angew Parasitol 9(4):212-216
Dec 1968 436.8 AN4
Animal physiology, Anthelmintics, Cestoda, Hydrogen-ion concentration, Hymenolepsis carioca, Poultry diseases, Raillietina cesticillus. English and Russian abstracts

11647-69
THE PRESENCE OF TRICHINELLA SPIRALIS (OWEN, 1835) IN CARNIVORES AND WILD BOARS IN THE DELTA REGION OF THE SENEGAL RIVER. (FR)
S Gretillat G Vassiliades
Acad Sci Compt Rend Ser D Sci Nat 264(10, 1ST SEMESTER):1297-1300
06 Mar 1967 505 P21
Animal diseases, Susceptibility, Trichinella spiralis, Wildlife.

11648-69
A COMPARATIVE STUDY OF THE BACTERIAL FLORA OF THE SMALL INTESTINE OF NORMAL AND ASCARIDIA GALLI INFESTED CHICKENS WITH ITS RELATION TO THAT OF THE INCLUDED WORMS.
M H Haiha A A Geneida
J Vet Sci U A R 5(2):143-154 REF
1968 SF604.J6
Ascaridia galli, Bacteria, Chickens, Clostridium perfringens, Escherichia coli, Gastrointestinal system, Streptococcus faecalis, Surveys.

11649-69
CRITICAL STUDIES ON THE INCIDENCE AND BIOLOGICAL PECULIARITIES OF HYDATID PATHOGENS, ECHINOCOCCUS GRANUCOSUS AND ECHINOCOCCUS MULTILOCULARIS IN WEST PAKISTAN.
M Z Hussain A S Akhtar
Pakistan J Sci 20(3):100-106 REF
May 1968 475 P172
Cats, Dogs, Echinococcosis, Echinococcus granulosus, Morphology, Surveys.

11650-69
OVINE DICROCOELIOSIS AND ITS COMPLICATIONS. (FR)
J P Lafay
Rec Med Vet 145(6):597-608
Jun 1969 41.8 R24
Clostridium, Diagnosis, Dicrocoelium dendriticum, Drug therapy, Sheep. English and Spanish abstracts.

11651-69
STUDIES ON DELAYED (CELLULAR) HYPERSENSITIVITY IN MICE INFECTED WITH TRICHINELLA SPIRALIS. IV. ARTIFICIAL SENSITIZATION OF DONORS.
J E Larsh H T Goulson N F Weatherly E F Chaffee
J Parasitol 55(4):726-729
Aug 1969 448.8 J824
Antigens, Hypersensitivity, Immunity, Mice, Trichinella spiralis.

11652-69
THE INFLUENCE OF SOME PHYSICAL FACTORS ON THE EXOGENOUS DEVELOPMENT OF THE EGGS OF TRICHOCEPHALUS TRICHIURUS AND ASCARIS LUMBRICOIDES UNDER LABORATORY CONDITIONS. (CZ)
E Magrova
Biologia (bratislava) 22(5):364-374
1967 442.8 B5265
Ascaris lumbricoides, Eggs, Morphology, Temperature, Trichuris trichiura, Ultraviolet rays. German and Russian abstracts.

11653-69
INTERESTING PERINEAL PATTERNS IN SPECIES OF THE GENUS MELOIDOGYNE GOELDI,1887. (POR)
J J da Ponte
Rev Brasil Biol 29(1):141-143
Apr 1969 442.8 R326
Meloidogyne, Taxonomy. English abstract.

11654-69
ULTRASTRUCTURE OF DYADS IN MUSCLE FIBERS OF ASCARIS LUMBRICOIDES.
J Rosenbluth
J Cell Biol 42(3):817-825 REF
Sep 1969 442.8 J828
Ascaris lumbricoides, Electron microscopy, Histology, Muscles.

11655-69
EXCITATORY AND INHIBITORY MOTONEURONS IN THE CENTRAL NERVOUS SYSTEM OF THE LEECH.
A E Stuart
Science 165(3895):817-819
22 Aug 1969 470 SCI2
Electrophysiology, Hirudinea, Morphology, Nervous system.

11656-69
SPINAL NEMATODOSIS IN A HORSE.
O G Swanstrom J L Rising W W Carlton
Amer Vet Med Ass J 55(5):748-753
01 Sep 1969 41.8 AM3
Animal physiology, Helminthiasis, Horses, Nervous system, Oxyuriasis, Parascaris equorum, Strongylus.

11657-69
PATHOMORPHOLOGICAL, HISTOLOGICAL AND FUNCTIONAL CHANGES IN LIVER IN SHEEP DICROCELIASIS. (SE)
B Vujic I Grus K Petrovic
Vet Glas 22(11):953-959 REF
1968 41.8 J93
Dicroceliasis, Dicrocoelium dendriticum, Liver, Parasitism, Sheep. English and Russian summaries.

11658-69
TWO CASES OF PRAENATAL STRONGYLOIDOSIS. (CZ)
D Zajicek
Czech Min Zemed Les Hospod Ustav Vedeckotech Inform Vet Med 5(14):329-332
May 1969 41.9 C333
Baby pigs, Diagnosis, Helminthiasis, Sheep. English, German and Russian abstracts.

COMMODITY PROTECTION

ARTHROPODS

11659-69
A PRACTICAL TRIAL OF PYRETHRINS-IN-OIL SURFACE SPRAYS FOR THE PROTECTION OF BAGGED GRAIN AGAINST INFESTATION BY CADRA CAUTELLA (WLK.) (LEPIDOPTERA, PHYCTIDAE) IN KENYA.
J A McFarlane N K Sylvester
J Stored Prod Res 4(4):285-293
Feb 1969 421 J829
Cadra cautella, Grain, Insecticidal aerosols, Insecticide resistant insects, Phycitidae, Plant protection, Pyrethrum, Sitophilus oryzae, Stored products, Tribolium castaneum.

11660-69
RELATIVE TOXICITY OF CERTAIN FUMIGANTS TO TROGODERMA GRANARIUM EVERTS (COLEOPTERA, DERMESTIDAE).
G K Punj G K Girish
J Stored Prod Res 4(4):339-342 REF
Feb 1969 421 J829
Chemical control (insects), Dermestidae, Fumigants, Insect physiology, Larvae, Temperature, Toxins, Trogoderma granarium.

RODENTS AND OTHER PESTS

11661-69
SOME RODENTICIDAL PROPERTIES OF COUMATETRALYL.
J H Greaves P Ayres
J Hyg 67(2):311-315
Jun 1969 449.8 J82
Biological assay, Coumarin, Pesticides, Rats, Rodenticides, Toxicity, Warfarin.

MICROBIAL CONTAMINATION

11662-69
CONTROL OF BYSSOCHLAMYS AND RELATED HEAT-RESISTANT FUNGI IN GRAPE PRODUCTS.
A D King H D Michener K A Ito
Appl Microbiol 18(2):166-173 REF
Aug 1969 448.3 AP5
Benzoic acid, Filters, Grapes, Heat treatment, Molds, Sorbates, Spores, Sulfur dioxide.

ENVIRONMENTAL CONTAMINATION

11663-69
OBSERVATIONS ON THE REPOPULATION BY AMOEBA OF A POND LARGELY POLLUTED WITH INSECTICIDES (PROTOZOA, RHIZOPODA, TESTACEA). (FR)

D Chardez
Gembloux Inst Agron Bull Etat Ser Extraordinaire 3(3):389-391
1968 105.1 G285
Amoeba, Insecticides, Organophosphorus compounds, Parathion, Ponds, Population, Water pollution.

11664-69
ACCUMULATION OF FLUORIDE BY FORAGE CROPS.
D C MacLean R E Schneider L H Weinstein
Boyce Thompson Inst Contrib 24(7,APR-JUN):165-166
Jun 1969 451 B69
Absorption, Air, Fluorides, Forage plants, Phleum, Poisonous gases, Red clover.

11665-69
OCCURRENCE AND SIGNIFICANCE OF PESTICIDE RESIDUES IN WATER.
H P Nicholson
Wash Acad Sci J 59(4-5,APR-MAY):77-85 REF
May 1969 500 W276J
Carbamates, Chlorinated hydrocarbons, Insecticide residues, Organophosphorus compounds, Pesticide residues, Water pollution, Water treatment.

11666-69
DETERMINATION OF ORGANOPHOSPHORUS PESTICIDES IN WATER.
G Zweig J M Devine
Residue Rev 26:17-36 MAP REF
1969 389.9 R314
Chemical analysis, Chromatography, Organophosphorus compounds, Parathion, Pesticides, Water.

RESIDUES

11667-69
A SPECIFIC GAS CHROMATOGRAPHIC METHOD FOR RESIDUES OF ORGANIC NITROGEN PESTICIDES.
C C Cassil R P Stanovick R F Cook
Residue Rev 26:63-87 REF
1969 389.9 R314
Chemical analysis, Chromatography, Methodology, Nitrogen compounds, Organic compounds, Pesticide residues.

11668-69
RAPID METHODS OF EXTRACTION AND CLEANUP IN PESTICIDE RESIDUE ANALYSIS.
D M Coulson
U S Agr Res Serv (4):1-19
29 Mar 1968 SB959.C62
Chromatography, Cleanup, Dairy equipment, Extraction, Methodology, Pesticide residues, Pesticides.

11669-69
THE ADSORPTION OF FOUR HERBICIDES BY DIFFERENT TYPES OF ORGANIC MATTER AND A BENTONITE CLAY.
P J Doherty G F Warren
Weed Res 9(1):20-26 REF
Mar 1969 79.8 W412
Adsorption, Bentonite, Herbicides, Linuron, Organic soils, Prometryne, Pyrazon, Simazine, Soil analysis.

11670-69
PESTICIDE REGULATIONS AND RESIDUE PROBLEMS IN JAPAN.
K Fukunaga Y Tsukano
Residue Rev 26:1-16
1969 389.9 R314
Fisheries, Mercury compounds, Pesticide residues, Poisons, Regulation (pesticides), Rice.

11671-69
CARBOFURAN. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCES.
J K Kirk
Fed Regist 34(97):7999
21 May 1969 L1.451
Alfalfa, Dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate, 2,3-, Insecticide residues, Milk, Tolerances.

11672-69
ISOPROPYL 4,4'-DIBROMOBENZILATE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE FOR PESTICIDE CHEMICAL.
J K Kirk
Fed Regist 34(104,PT 1):8373
30 May 1969 L1.451
Citrus, Insecticide residues, Insecticides, Isopropyl 4,4'-dibromobenzilate, Tolerances.

11673-69
CHLORINATED HYDROCARBONS AS RESIDUES IN FOODS. (GE)
H Maier-Bode
Ernahr-umsch 16(6):215-219 REF
Jun 1969 389.8 ER66
Aldrin, Chlorinated hydrocarbons, Dieldrin, DDT, Food contamination, Heptachlor epoxide, Insecticides, Lindane, Pesticide residues.

11674-69
GAS CHROMATOGRAPHIC ANALYSIS OF PHORATE AND FIVE METABOLITES IN MONKEY LIVER HOMOGENATES.
H A McLeod G Mulkins S L N Rao
Bull Environ Contamination Toxicol 4(4)JUL-AUG):224-231
Aug 1969 RA1270.P35A1
Chemical analysis, Chromatography, Insecticides, Liver extracts, Monkeys, Organophosphorus compounds, Phorate.

11675-69
SIGNIFICANCE OF ORGANOCHLORINE INSECTICIDE RESIDUES IN FRESH PLANTS AS POSSIBLE CONTAMINANTS OF MILK AND BEEF PRODUCTS.
J G Saha
Residue Rev 26:89-126 REF
1969 389.9 R314
Beef, Chlorine, Food contamination, Insecticide residues, Milk, Organic compounds, Plants.

11676-69
A CARBOXYLESTERASE INHIBITION ASSAY TO ESTIMATE PARATHION, MALATHION AND DIAZINON IN LETTUCE EXTRACTS.
D C Villeneuve A G Butterfield K A McCully
Bull Environ Contamination Toxicol 4(4,JUL-AUG):234-239 REF
Aug 1969 RA1270.P35A1
Biological assay, Carboxylesterase, Chemical analysis, Diazinon, Insecticide residues, Insecticides, Lettuce, Malathion, Organophosphorus compounds, Parathion, Plant extracts.

TOXICOLOGY

11677-69
THE INFLUENCE OF HERBICIDES UPON THE ANTAGONISM BETWEEN BACILLUS SP. AND PSEUDOMONAS PHASEOLI.
N Balicka Z Krezel
Weed Res 9(1):37-42
Mar 1969 79.8 W412
Bacillus, Chlorpropham, Herbicides, Linuron, Metabolism, Prometryne, Pseudomonas, Toxicology.

11678-69
CHOLINOLYTICS IN THE TREATMENT OF ANTICHOLINESTERASE POISONING. V. THE EFFECTIVENESS OF PARPANIT WITH OXIMES IN THE TREATMENT OF ORGANOPHOSPHORUS POISONING.
I W Coleman G E Patton R A B Bannard
Can J Physiol Pharmacol 46(1):109-117 REF
Jan 1968 444.8 C16
Amyl phenol, Atropine sulfate, Caramiphen hydrochloride, Cholinesterases, Drug therapy, Guinea pigs, Mice, Organophosphorus compounds, Oximes, Rabbits, Rats, Toxicology.

The effectiveness of Parpanit in the treatment of organophosphorus poisoning was examined and compared with that of atropine sulfate. The potency of Parpanit was assessed in the mouse, rat, hamster, guinea pig, and rabbit against sarin, tabun, soman, CMPF, and DSDP in treatments in which the oximes p2s and tmb4 were used both singly and together.

11679-69
EFFECTS OF AFLATOXIN B1 AND OTHER CARCINOGENS UPON NUCLEAR RNA OF VARIOUS TISSUES IN THE RAT.
I R Floyd T Unuma H Busch
Exp Cell Res 51(2/3,AUG-SEP):423-438 REF
1968 442.8 EX7
Aflatoxin, Biochemistry, Biosynthesis, Carcinogens, Electron microscopy, Inhibitors, Rats, Ribonucleic acid, Tissues.

11680-69
EFFECT OF ISOMERS OF DDD ON THYROID AND ADRENAL FUNCTION IN RATS.
M J Fregly I W Waters J A Straw
Can J Physiol Pharmacol 46(1):59-66 REF
Jan 1968 444.8 C16
Adrenal glands, Animal physiology, Rats, Thyroid gland, TDE, Toxicology.

Dietary administration of o,p'-DDD (2,2-bis(2-chlorophenyl, 4-chlorophenyl)-1,1-dichloroethane) at 1.0 and 3.0 g/kg food for 6 weeks increased the thyroid weight of male albino rats by 62 and 81 per cent respectively. The rate of oxygen consumption (measured at 30 degrees C) and gain in body weight were unaffected by treatment. The rate of loss of 131I from the thyroid gland was significantly faster for both treated groups than for controls.

11681-69
EFFECTS OF FEEDING PROVITAMIN A, STABILIZED VITAMIN A AND FURAZOLIDONE ON PRODUCTION AND QUALITY OF EGGS.
M A Haleem
Indian Vet J 46(3):243-253 REF
Mar 1969 41.8 IN2
Egg production, Egg yolks, Eggs, Feeding, Furazolidone, Mortality, Ovulation, Vitamin A.

11682-69
STUDIES ON LABORATORY EVALUATION OF FUNGICIDES AND ANTIBIOTICS ON HELMINTHOSPORIUM NODULOSUM BERK. AND CURT.
R K Hedge N Shivanandappa
Mysore J Agr Sci 2(3):237-239
1968 S19.M9
Antibiotics, Fungicides, Helminthosporium. Eight fungicides were evaluated.

11683-69
LOCOWEED (ASTRAGALUS LENTIGINOSUS) POISONING IN CATTLE AND HORSES.
L F James K R van Kampen G R Staker
Amer Vet Med Ass J 155(3):525-530
01 Aug 1969 41.8 AM3
Astragalus, Cattle, Diagnosis, Horses, Oxytropis, Poisonous plants, Toxicology.

11684-69
MERCAPTOCAINE CREME. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
J K Kirk
Fed Regist 34(103):8304
29 May 1969 L1.451
Anesthetics, Animals, Drug therapy, Fungicides, Mercapto compounds.

11685-69
DAPSONE AND SULFABENZ MEDICATED PREMIX. DRUGS FOR VETERINARY USE, DRUG EFFICACY STUDY IMPLEMENTATION.
J K Kirk

Fed Regist 34(101):8210
27 May 1969 L1.451
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Aug 1969 RA1270.P35A1
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Amiben, Chemical analysis, Chlorinated hydrocarbons, D, 2,4-, Dicamba, Electrophoresis, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Picloram, T, 2,4,5-.

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Pans (pest Articles News Sum) Sect A Insect Contr 15(2):160-162
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S J L Wright C G Clark
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